HCD-V515

SERVICE MANUAL

E Model
Chinese Model

HCD-V515 is the Amplifier, Video CD player, Tape Deck and Tuner section in MHC-V515.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol □□ are trademarks of Dolby Laboratories Licensing Corporation.

- HCD-V515 is almost same as HCD-V717.
  This manual contains only the points which differ from HCD-V717.
  Please refer to HCD-V717 service manual (9-922-879-□□) previously issued for other information.

SPECIFICATIONS

Amplifier section

The following measured at AC 110, 220 V 50/60 Hz
DIN power output (rated) 50 + 50 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
65 + 65 watts
(6 ohms at 1 kHz,
10% THD)
The following measured at AC 120, 240 V 50/60 Hz
DIN power output (rated) 60 + 60 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
75 + 75 watts
(6 ohms at 1 kHz,
10% THD)
Peak music power output (reference)
1000 watts

Inputs
MD/VIDEO (AUDIO) IN (phono jacks):
voltage 450/250 mV,
impedance 47 kilohms
MIC 1/2 (phone jack): sensitivity 1 mV,
impedance 10 kilohms

Outputs
MD/VIDEO (AUDIO) OUT (phono jacks):
voltage 250 mV
impedance 1 kilohms
VIDEO OUT (phono jack): max. output level
1Vp-p, unbalanced, Sync
negative, load impedance
75 ohms
S-VIDEO OUT (4-pin/mini-DIN jack):
Y: 1Vp-p, unbalanced,
Sync negative,
C: 0.286Vp-p,
load impedance 75 ohms
PHONES (stereo phone jack):
accepts headphones of 8
ohms or more
SPEAKER: accepts impedance of 6 to
16 ohms
SUPER WOOFER: Voltage 1 V, impedance 1
kilohm

– Continued on next page –

MINI Hi-Fi COMPONENT SYSTEM

MICROFILM

SONY®

VIDEO CD/CD player section

System	Compact disc and digital audio and video system
Laser	Semiconductor laser (λ=780nm) Emission duration: continuous
Laser output	Max. 44.6 μW* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Wavelength	780 – 790 nm
Frequency response	2 Hz – 20 kHz (±0.5 dB)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
Video color system format	NTSC, PAL

CD OPTICAL DIGITAL OUT
(Square optical connector jack, rear panel)

Wavelength	600 nm
Output Level	–18 dBm

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	40 – 13,000 Hz (±3 dB), using Sony TYPE I cassette 40 – 14,000 Hz (±3 dB), using Sony TYPE II cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	
2 band models:	87.5 – 108.0 MHz
3 band (FM–MW–SW) models:	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
2 Band type:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
3 Band type:	
MW:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
SW:	5.95 – 17.90 MHz (with the interval set at 5 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
Thai and Chinese models:	220 V AC, 50/60 Hz
Other models:	110 - 120 V or 220 - 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption:	165 watts
Dimensions (w/h/d)	Approx. 280 x 335 x 380 mm ($13^1/_8$ x $11^1/_4$ x 15 in.)
Mass:	Approx. 9.6 kg

Design and specifications are subject to change without notice.

SECTION 1
SERVICING NOTES

TABLE OF CONTENTS

1. SERVICING NOTES 3

2. GENERAL
Location of Controls 5
Setting the Time 6

3. DIAGRAMS
3-1. Note for Printed Wiring Boards and Schematic Diagrams 8
3-2. Printed Wiring Board – MAIN Section – 9
3-3. Schematic Diagram – MAIN Section (1/4) – 11
3-4. Schematic Diagram – MAIN Section (2/4) – 13
3-5. Schematic Diagram – MAIN Section (3/4) – 15
3-6. Schematic Diagram – MAIN Section (4/4) – 17
3-7. Printed Wiring Board – PANEL Section – 19
3-8. Schematic Diagram – PANEL Section – 21
3-9. Printed Wiring Board – POWER AMP Section – 24
3-10. Schematic Diagram – POWER AMP Section – 25
3-11. Printed Wiring Board – TRANSFORMER Section – 27
3-12. Schematic Diagram – TRANSFORMER Section – 28

4. EXPLODED VIEWS 29

5. ELECTRICAL PARTS LIST 33

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

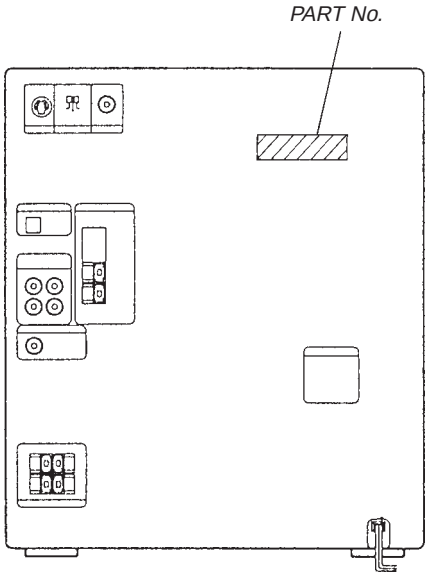
CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

MODEL IDENTIFICATION
– Back Panel –



MODEL	PART No.
Malaysia and Singapore models	4-999-906-0☐
Saudi Arabia model	4-999-906-1☐
Chinese model	4-999-906-2☐
Hong Kong model	4-999-906-3☐
Taiwan model	4-999-906-4☐
Indonesia model	4-999-906-5☐
Thai model	4-999-906-9☐

IC502 OF VIDEO BOARD

IC502 of the VIDEO board consists of the former type and new type. The following table shows the differences between the two types.
Only spare parts for the new type IC502 are supplied.
Units using the former IC502 will not function when replaced with the new type without performing the following procedure.
Consequently, replace IC502 of units using the former type according to the following procedure.

Table of Differences

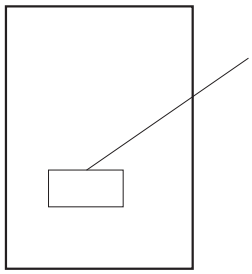
	FORMER TYPE	NEW TYPE
C407, 408	MOUNT	NO MOUNT
IC502	M30620MC-302FP	M30620MC-305FP
JW421, JW422	NO MOUNT	MOUNT
IC402	MOUNT	NO MOUNT
R413, 421, 422	MOUNT	NO MOUNT
X401	MOUNT	NO MOUNT

Replacing Procedure

1. Remove IC402.
2. Solder JW421 and JW422, or short-circuit with a lead wire, etc.
3. Replace IC502 with a new one.

How to Differentiate

[VIDEO board] (Side A)



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

与安全有关的零部件须知

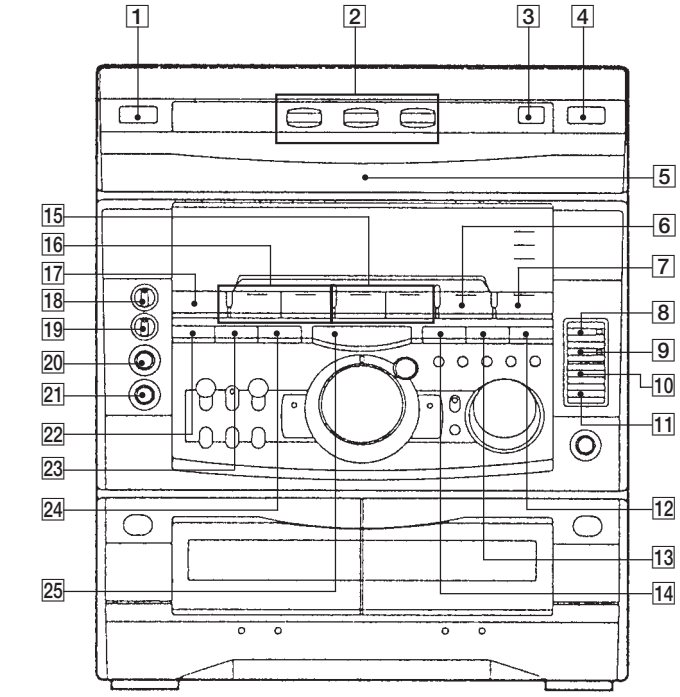
在原理图上用阴影及⚠标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

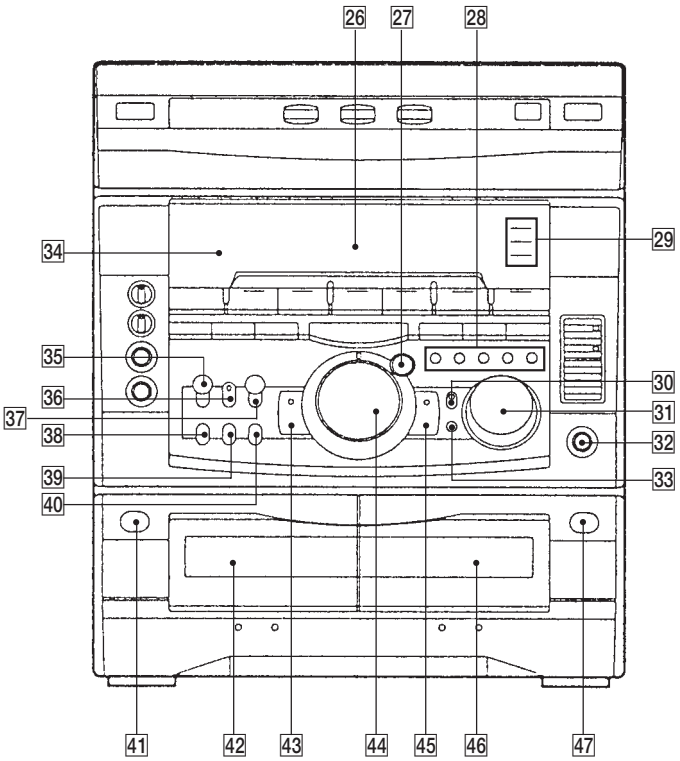
SECTION 2
GENERAL

LOCATION OF CONTROLS

- **Front view**

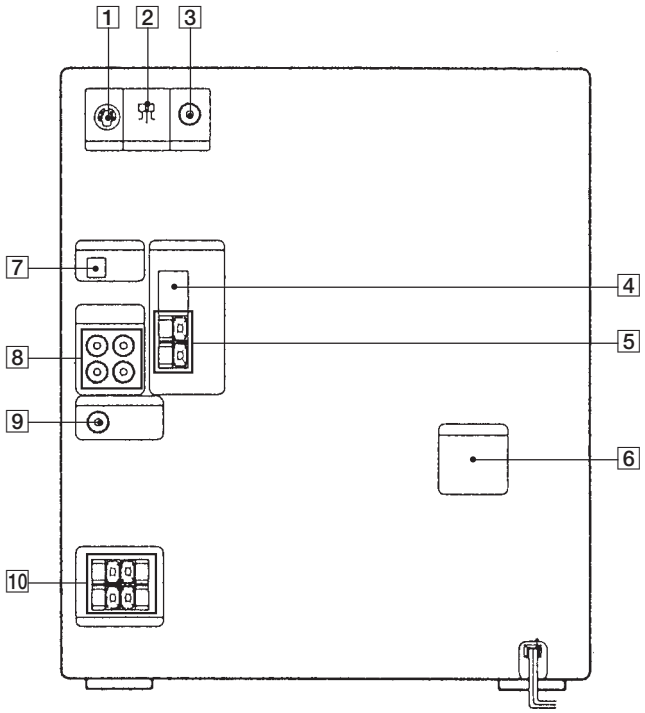


1 I /⏻ (Power) button
2 DISC 1 to 3 buttons and indicators
3 DISC SKIP/EX-CHANGE button
4 ⏏ (CD) button
5 CD disc tray
6 CD ▶II button and indicator
7 TUNER, BAND button
8 ● REC button and indicator
9 II PAUSE button and indicator
10 HI-DUB button
11 CD SYNC button
12 FILE SELECT button
13 SURROUND button
14 KARAOKE PON/MPX button
15 DECK B ◄ and ► buttons and indicators
16 DECK A ◄ and ► buttons and indicators
17 FUNCTION button
18 ECHO LEVEL knob
19 MIC LEVEL knob
20 MIC1 jack
21 MIC2 jack
22 DISPLAY/DEMO button
23 CLOCK/TIMER SET button
24 TIMER SELECT button
25 ■ button



26 Fluorescent indicator tube
27 ENTER/NEXT button and indicator
28 ACTIVE, SELECT, RETURN, PREV, NEXT button
29 VIDEO CD, PBC, PBC OFF indicators
30 GROOVE button and indicator
31 VOLUME konb
32 PHONES jack
33 DBFB button
34 Remote sensor
35 CD LOOP button
36 CD NON-STOP button and indicator
37 CD FLASH button
38 EDIT, DIRECTION button
39 PLAY MODE, DOLBY NR button
40 REPEAT button
41 ⏏ button (deck A)
42 Tape deck A
43 –, ◄◄ button and indicator
44 JOG dial
45 +, ►► button and indicator
46 Tape deck B
47 ⏏ button (deck B)

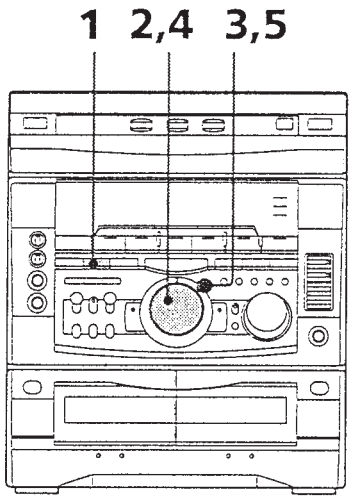
• **Rear view**



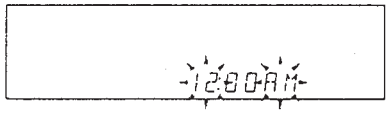
1 S VIDEO OUT jack
2 SYSTEM SELECT switch
3 VIDEO OUT jack
4 FM antenna terminal
5 AM antenna terminal
6 VOLTAGE SELECTOR switch (EXCEPT Thai and Chinese models)
7 CD DIGITAL OUT, OPTICAL connector
8 MD/VIDEO (AUDIO), IN/OUT jacks
9 SUPER WOOFER jack
10 SPEAKER terminals

Step 2: Setting the time

You must set the time before using the timer functions.

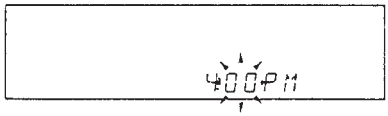


1 Press CLOCK/TIMER SET.
The hour indication flashes.



2 Turn the jog dial to set the hour.

3 Press ENTER/NEXT.
The minute indication flashes.



4 Turn the jog dial to set the minute.

5 Press ENTER/NEXT.
The clock starts working.

Tips

- If you've made a mistake, start over from step 1.
- Setting the time deactivates the demo mode. If you want to display the demo mode, press DISPLAY/DEMO when the power is off.

Note

The previous explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:

1 Press CLOCK/TIMER SET.
2 Turn the jog dial to select SET CLOCK.
3 Press ENTER/NEXT.
4 Perform steps 2 through 5 above.

SECTION 3
DIAGRAMS

3-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Schematic Diagrams:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

- B+ : B+ Line.
- B− : B– Line.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : TUNER (FM/AM)
  - : PLAYBACK (DECK A)
  - : PLAYBACK (DECK B)
  - : RECORD
  - : CD PLAY (AUDIO)
  - : CD PLAY (VIDEO)
  - : DIGITAL OUT
  - : MIC INPUT
- Abbreviation
  - CH : Chinese model.
  - TH : Thai model.

Note on Printed Wiring Boards:

- : parts extracted from the component side.
- ○ : Through hole.
- : Pattern from the side which enables seeing.

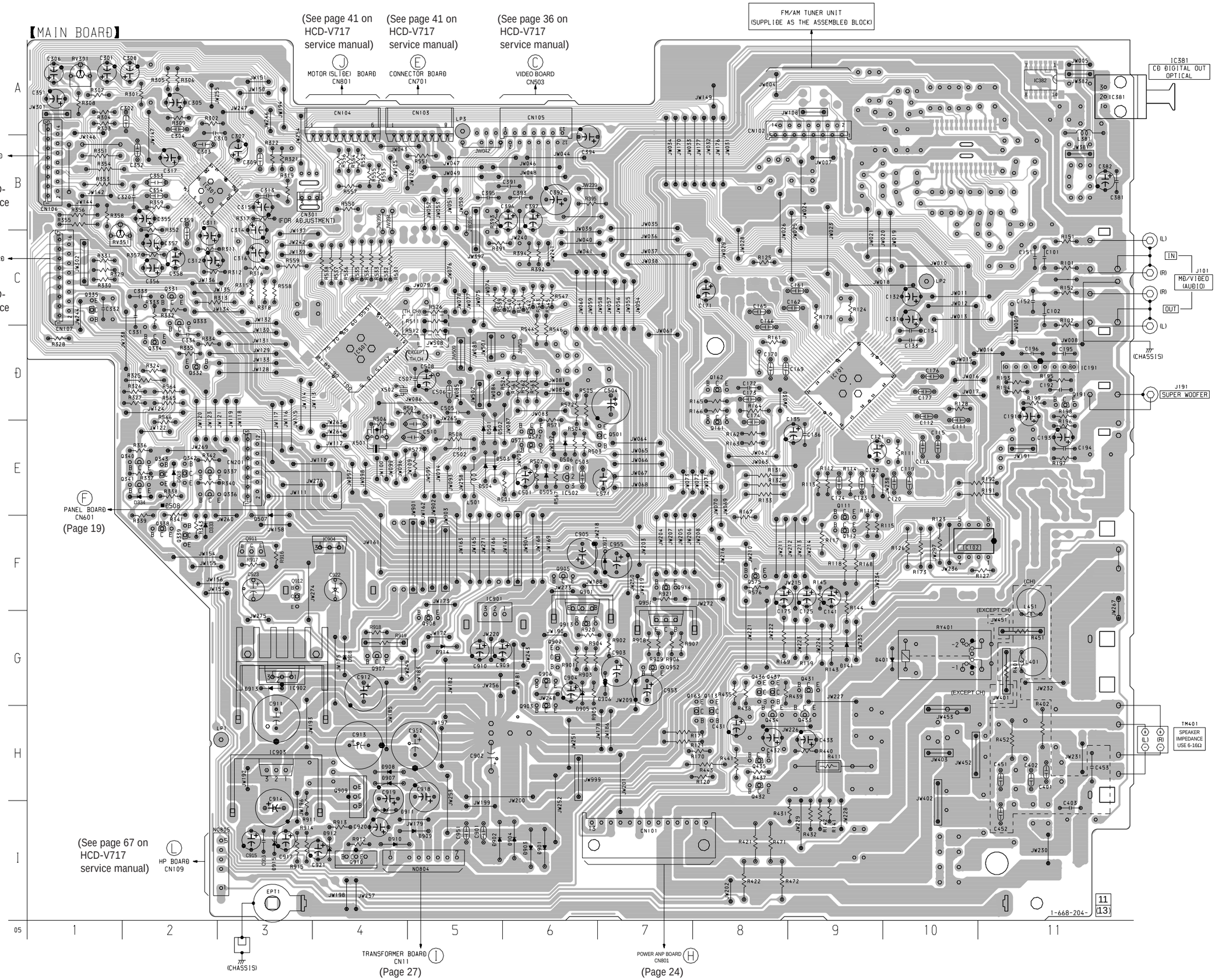
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

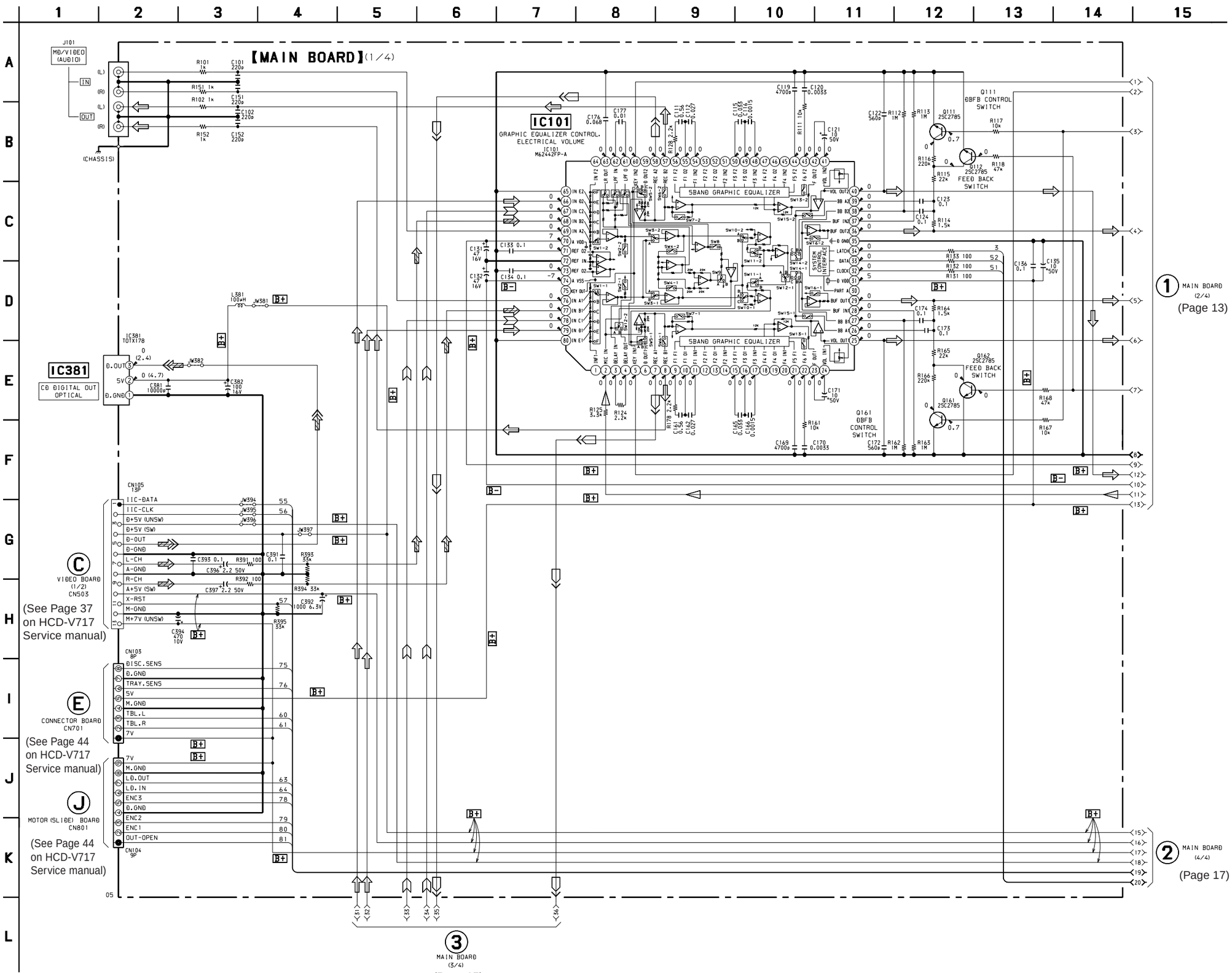
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D141	G-9	Q113	H-8
D333	E-2	Q161	E-8
D334	F-2	Q162	D-8
D401	G-10	Q163	H-8
D501	E-5	Q191	D-11
D502	E-5	Q331	C-2
D503	E-5	Q332	D-2
D504	E-5	Q333	C-2
D505	E-6	Q334	D-2
D506	E-6	Q335	C-1
D507	F-3	Q336	E-2
D508	F-2	Q337	E-2
D901	I-6	Q338	F-2
D902	I-5	Q339	F-2
D903	I-6	Q340	E-2
D904	I-6	Q341	E-2
D905	G-6	Q342	E-2
D906	G-7	Q343	E-2
D907	H-4	Q431	G-9
D908	H-4	Q432	H-8
D909	I-5	Q433	H-9
D910	I-4	Q434	H-8
D911	I-4	Q435	H-8
D912	I-4	Q436	G-8
D913	G-3	Q437	G-8
D914	G-5	Q501	E-7
D915	I-3	Q571	E-6
D-917	F-7	Q572	E-6
D-918	G-4	Q575	F-8
		Q901	F-6
IC101	D-9	Q902	G-6
IC102	F-10	Q903	H-6
IC191	D-11	Q905	F-6
IC301	B-2	Q906	G-6
IC381	A-11	Q907	G-4
IC501	D-4	Q908	G-5
IC502	E-6	Q909	H-4
IC901	G-5	Q910	I-4
IC902	G-3	Q911	F-3
IC903	H-3	Q912	F-3
IC904	F-4	Q913	G-6
		Q914	F-7
Q111	F-9	Q951	G-7
Q112	F-9	Q952	G-7

3-2. PRINTED WIRING BOARD – MAIN Section –

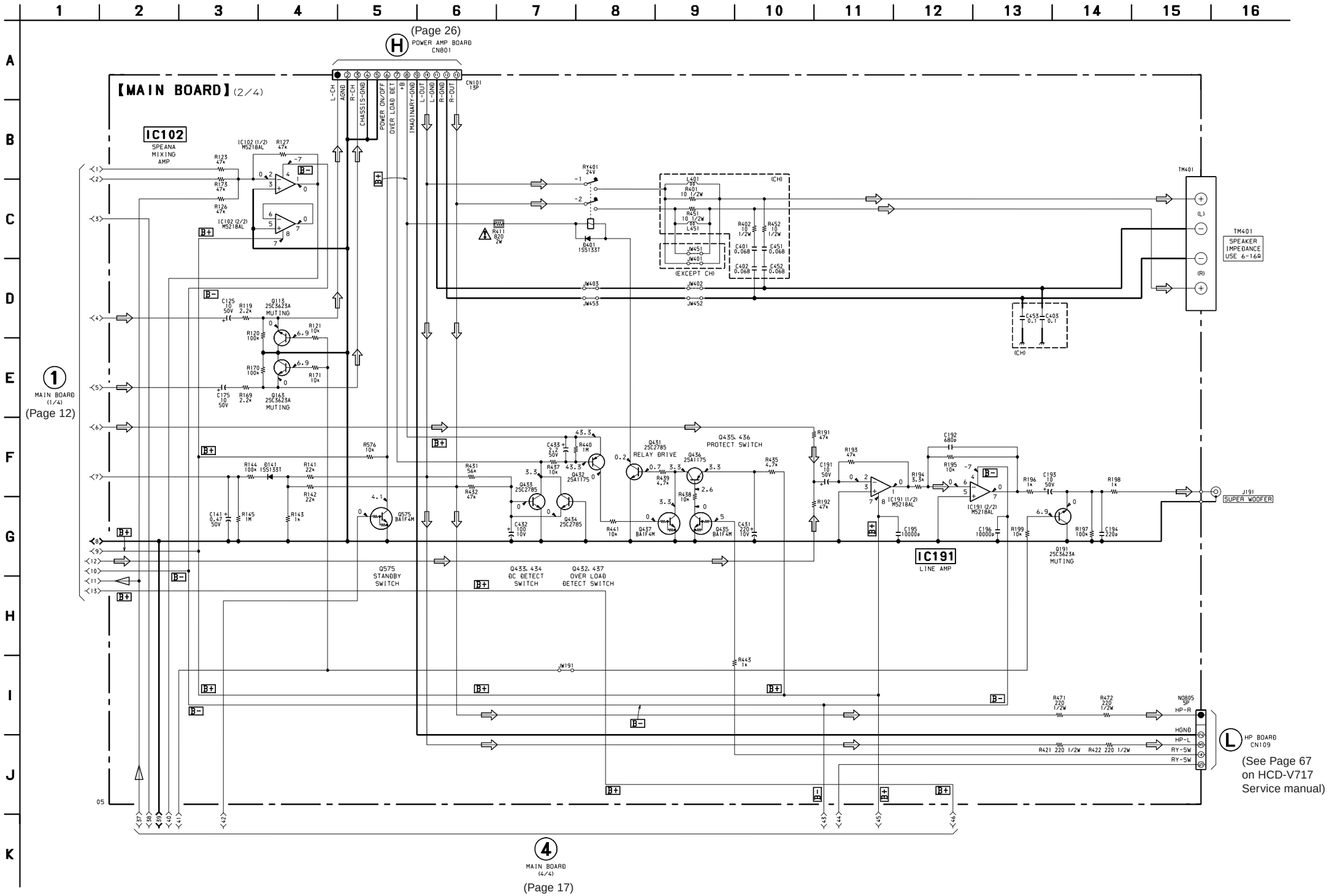


3-3. SCHEMATIC DIAGRAM – MAIN Section (1/4) –



- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : CD

3-4. SCHEMATIC DIAGRAM – MAIN Section (2/4) –



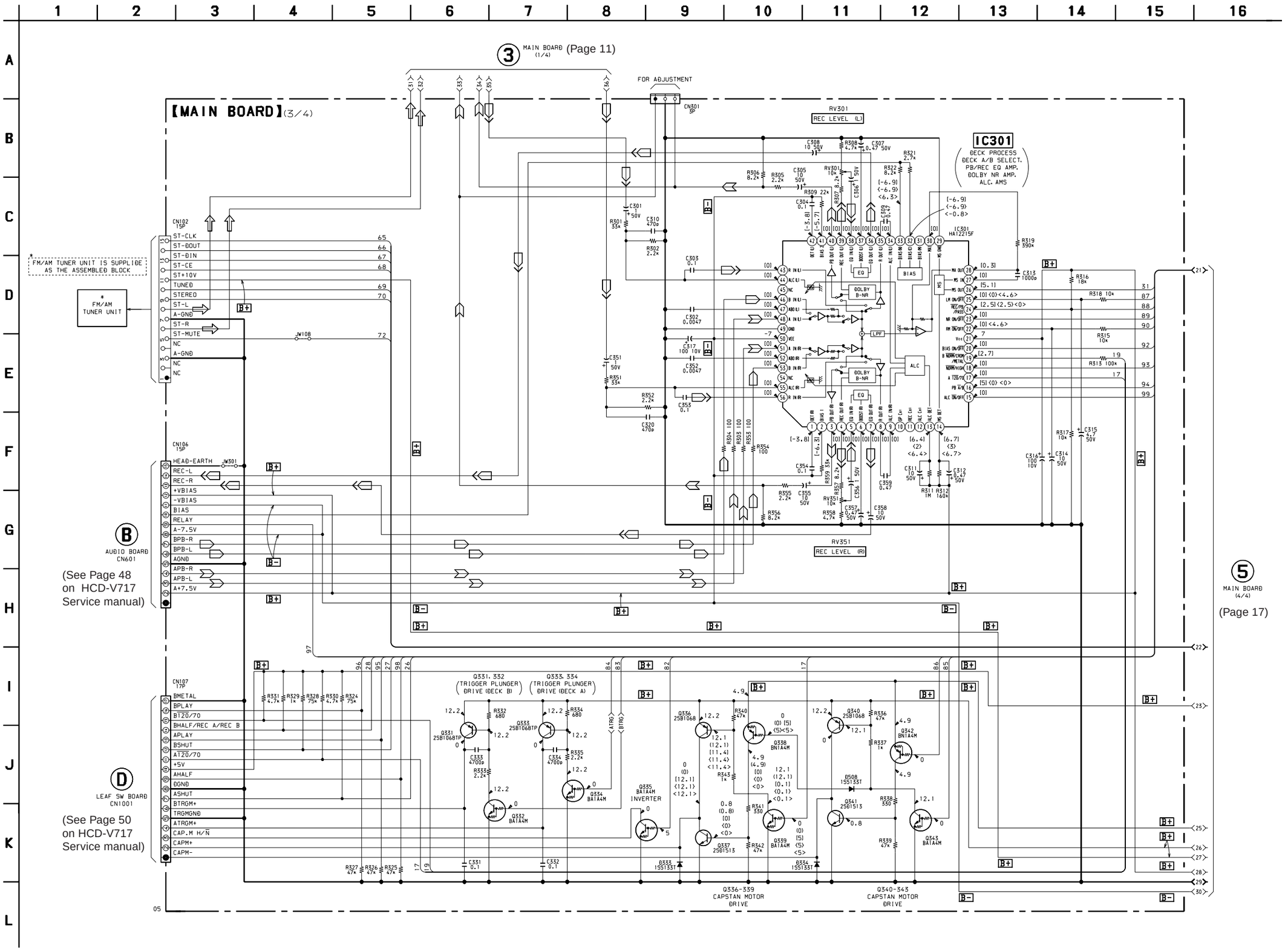
(See Page 67 on HCD-V717 Service manual)

• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

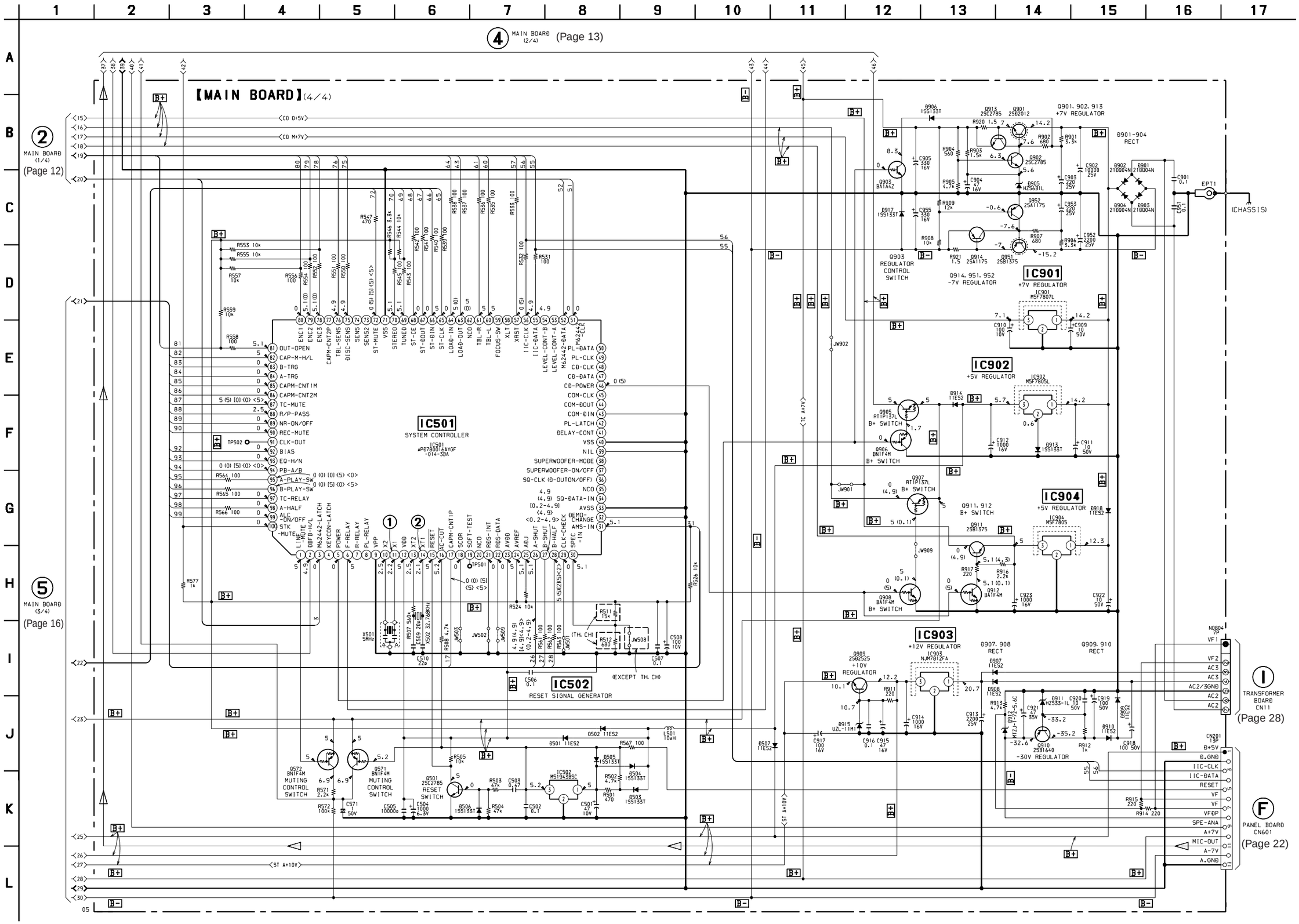
以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

3-5. SCHEMATIC DIAGRAM – MAIN Section (3/4) –



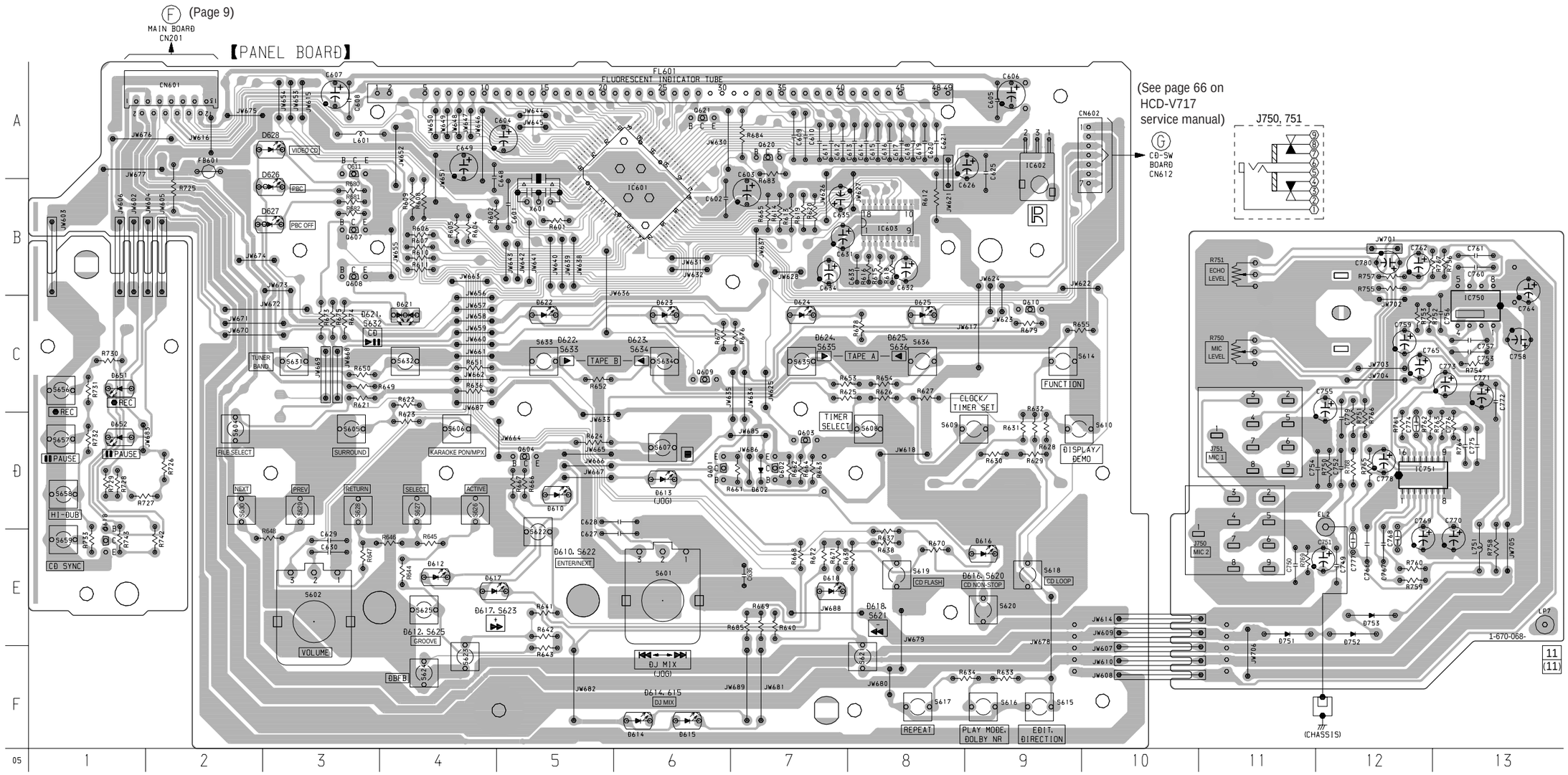
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM { } : PB (DECK A)
  ( ) : CD [ ] : PB (DECK B)
  < > : REC

3-6. SCHEMATIC DIAGRAM – MAIN Section (4/4) –



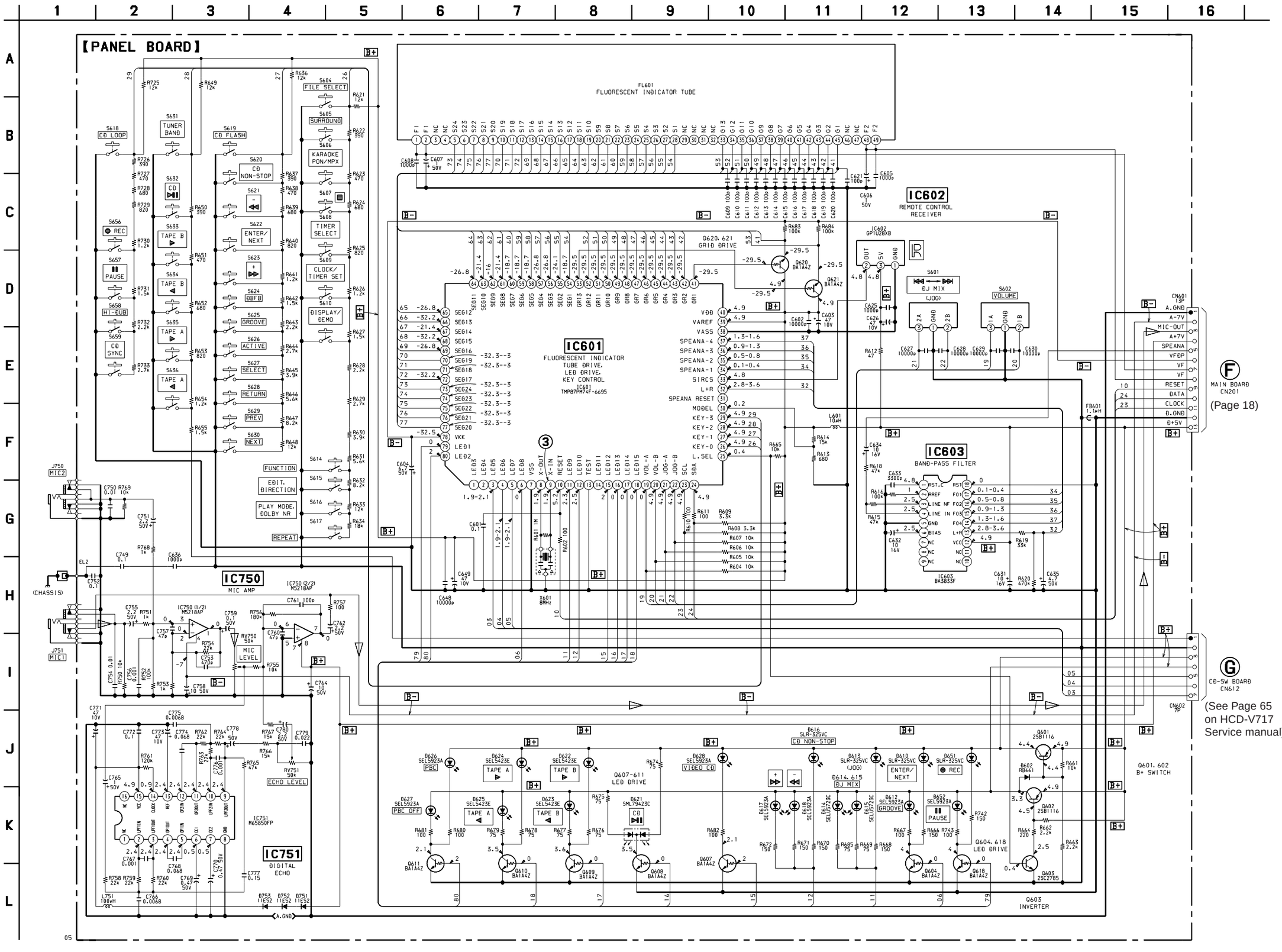
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : CD
  { } : PB (DECK A)
  [ ] : PB (DECK B)
  < > : REC

3-7. PRINTED WIRING BOARD – PANEL Section –



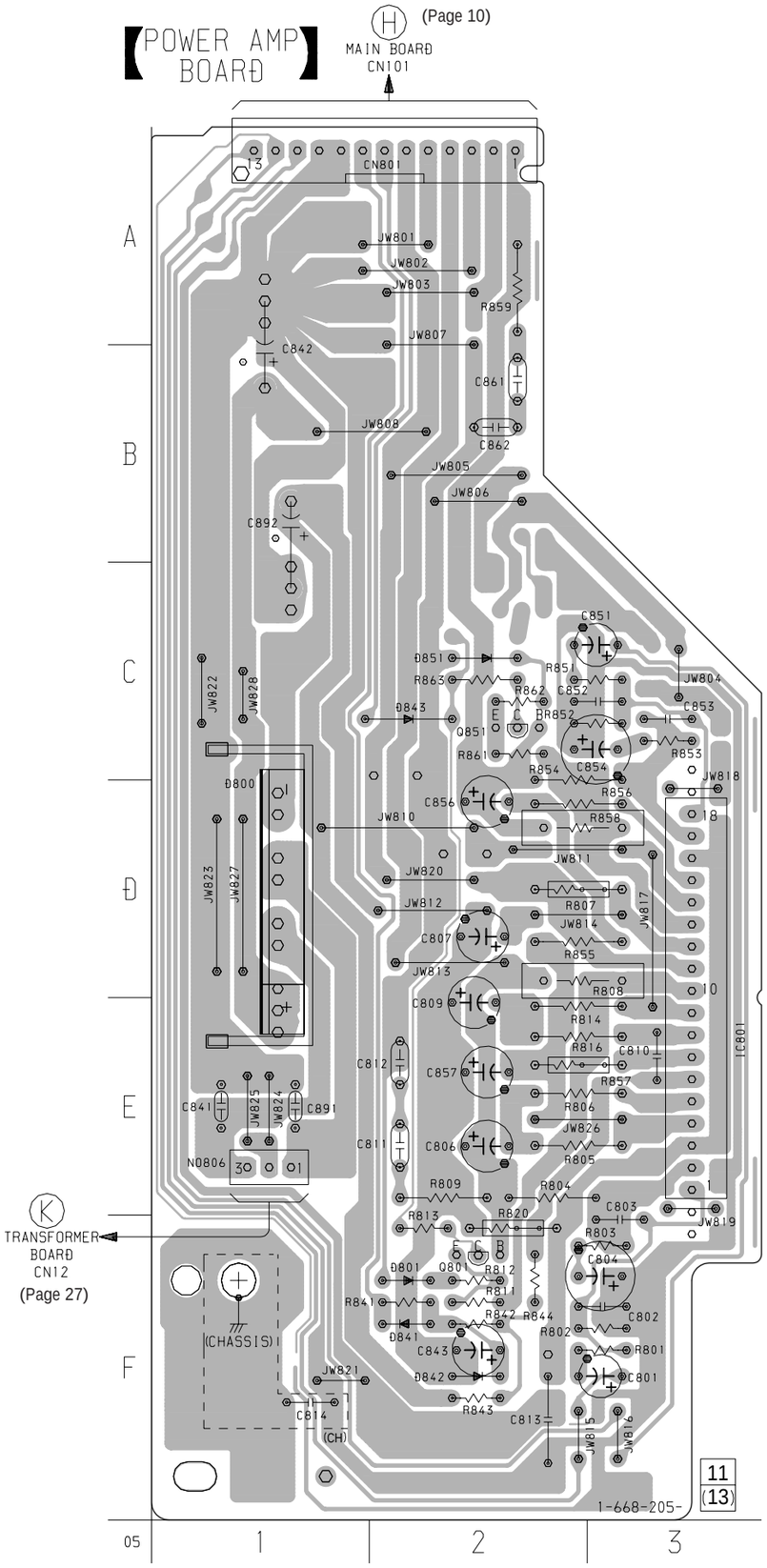
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D602	D-7	D627	B-3	Q601	D-6
D610	D-5	D628	A-3	Q602	D-7
D612	E-4	D651	C-1	Q603	D-7
D613	D-6	D652	D-1	Q604	D-5
D614	F-6	D751	E-11	Q607	B-3
D615	F-6	D752	E-12	Q608	B-3
D616	E-9	D753	E-12	Q609	C-6
D617	E-4			Q610	C-9
D618	E-7	IC601	B-6	Q611	A-3
D621	C-4	IC602	A-9	Q618	E-1
D622	C-5	IC603	B-8	Q620	A-7
D623	C-6	IC750	C-13	Q621	A-6
D624	C-7	IC751	D-12		
D625	C-8				
D626	B-3				



- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

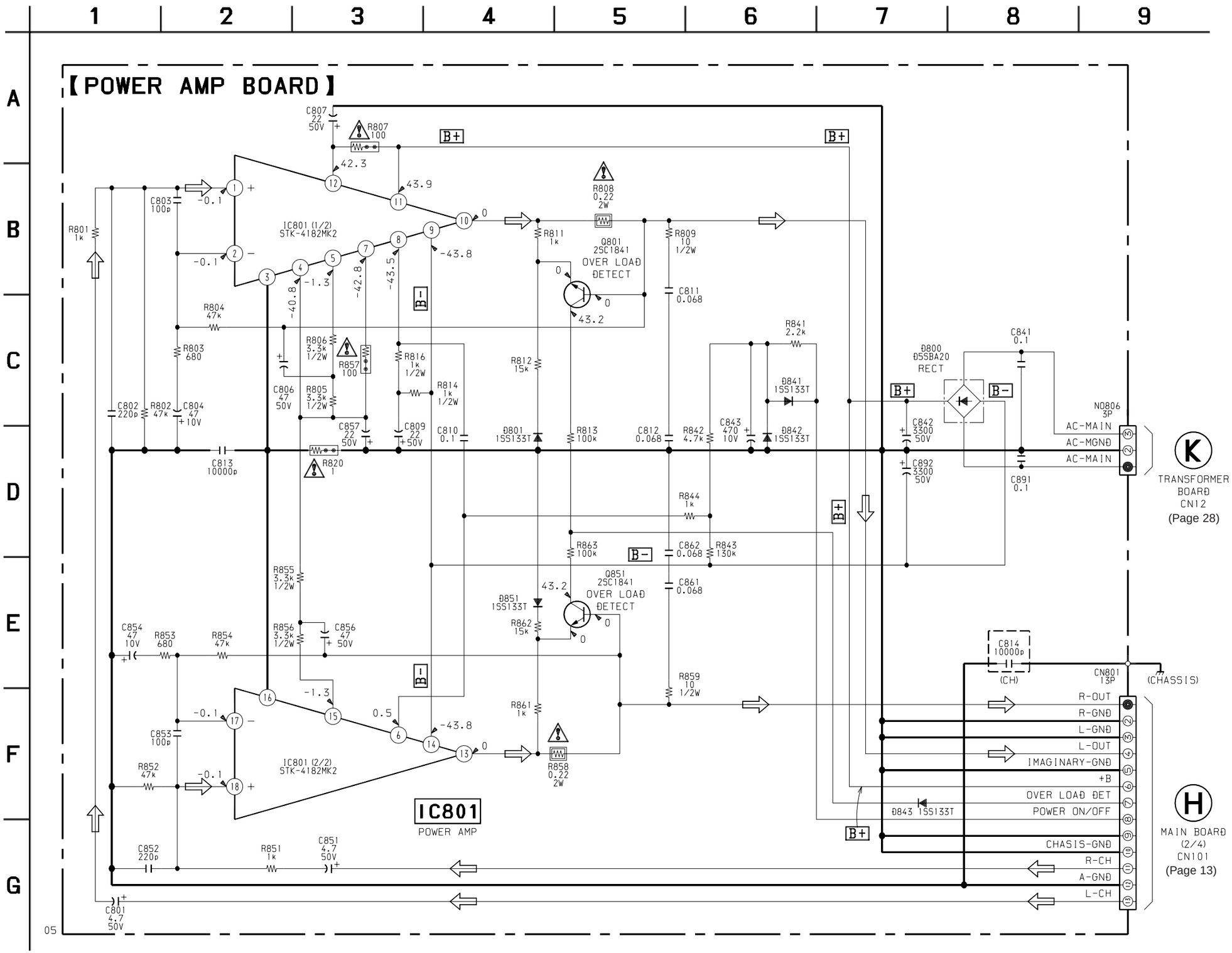
3-9. PRINTED WIRING BOARD – POWER AMP Section –



- **Semiconductor Location**

Ref. No.	Location
D800	D-1
D801	F-2
D841	F-2
D842	F-2
D843	C-2
D851	C-2
IC801	E-3
Q801	F-2
Q851	C-2

3-10. SCHEMATIC DIAGRAM – POWER AMP Section –

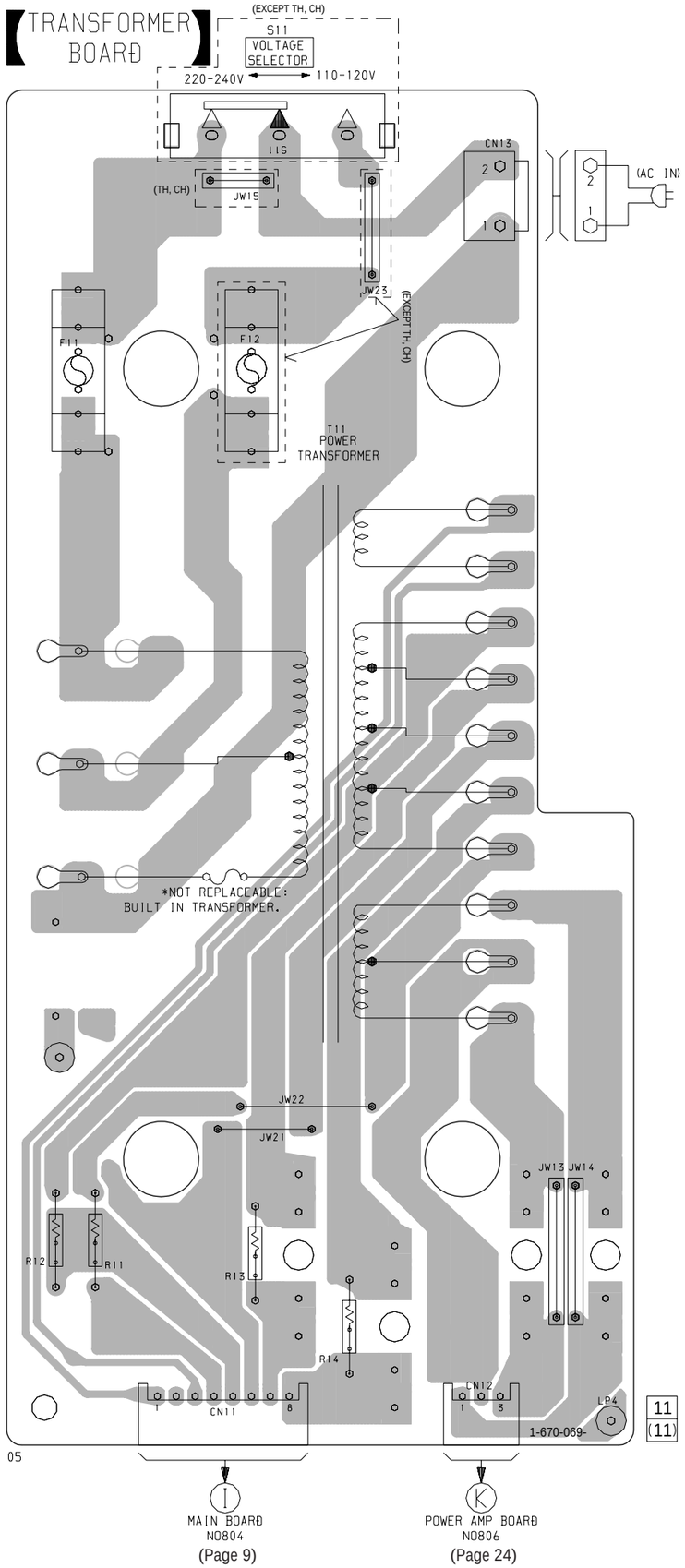


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

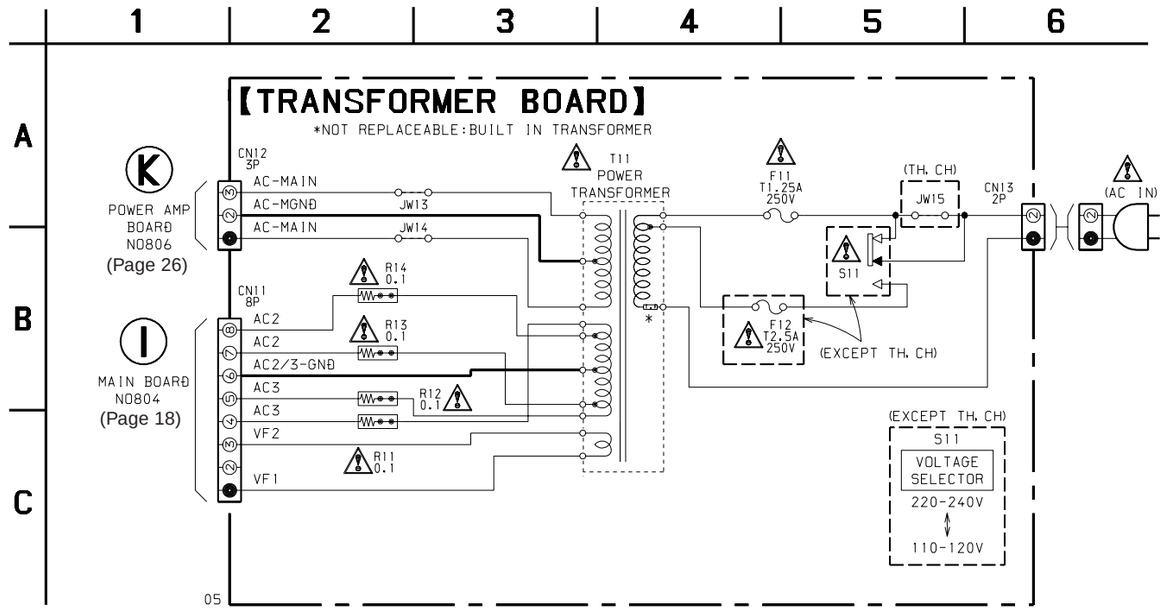
以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

3-11. PRINTED WIRING BOARD – TRANSFORMER Section –



3-12. SCHEMATIC DIAGRAM – TRANSFORMER Section –



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

SECTION 4
EXPLODED VIEWS

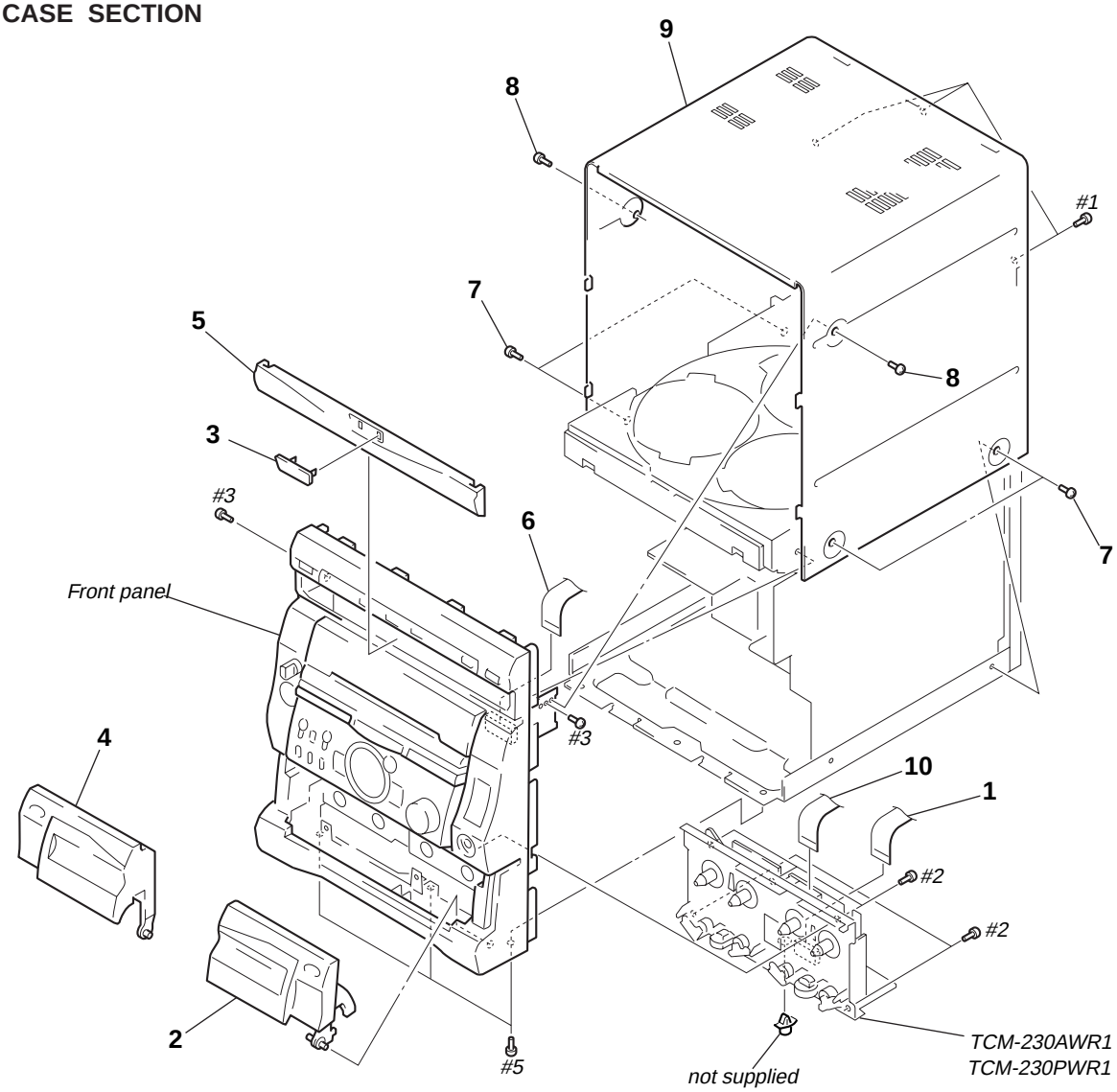
NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation
  CH : Chinese MY : Malaysia
  EA : Saudi Arabia SP : Singapore
  HK : Hong Kong TH : Thai
  IA : Indonesia TW : Taiwan

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

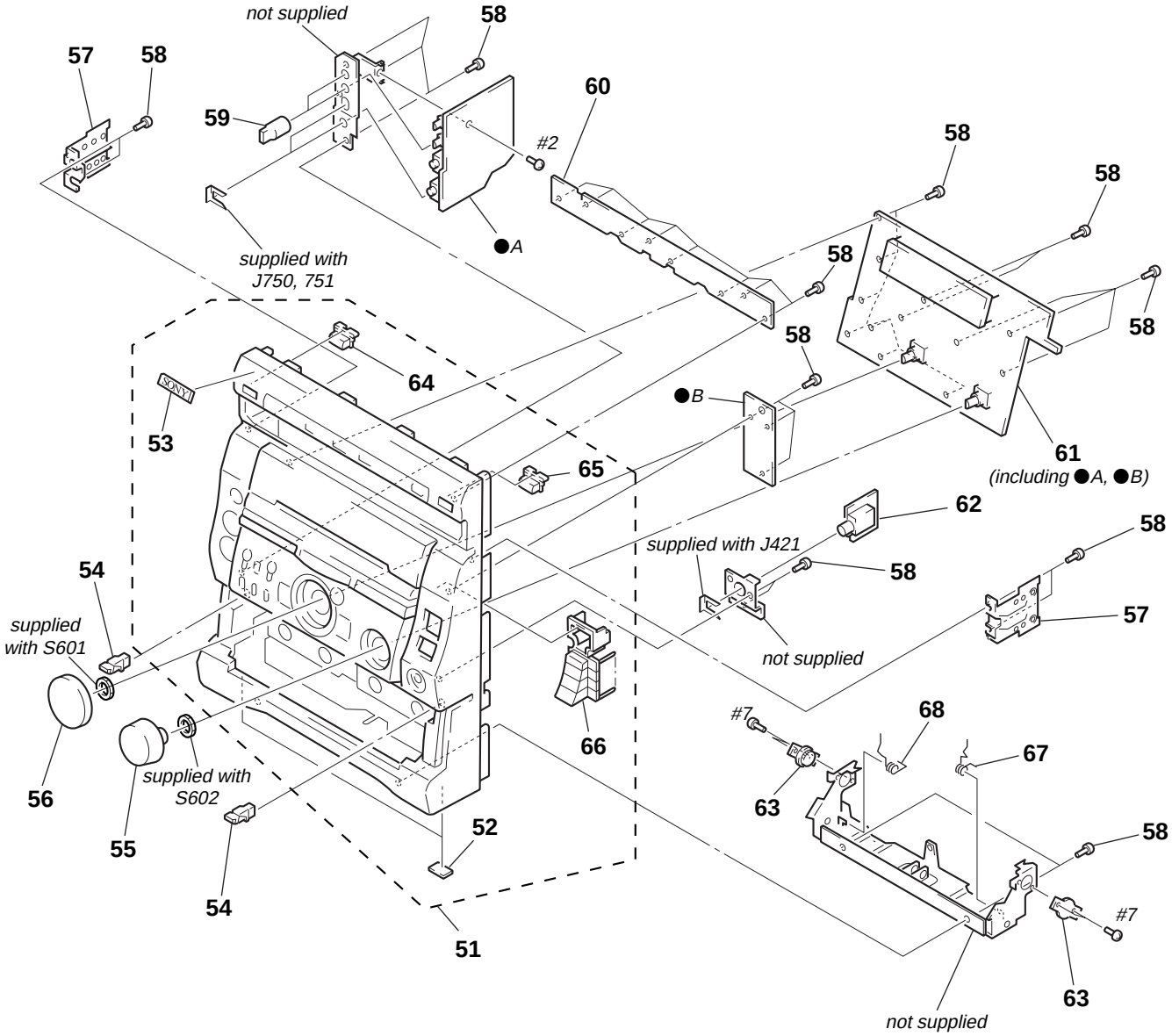
以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

(1) CASE SECTION



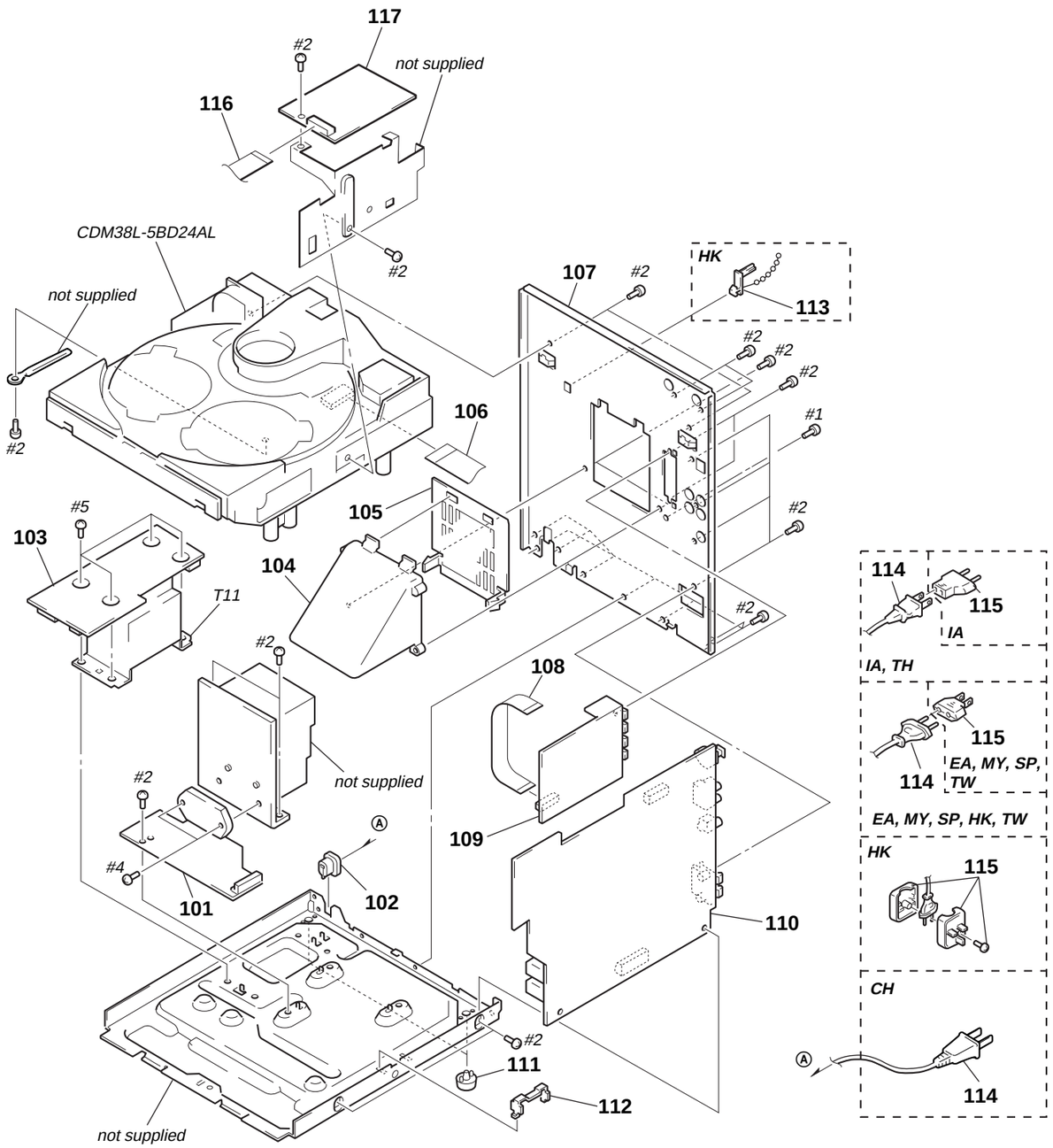
Ref. No.	Part No.	Description	Remark
1	1-773-025-11	WIRE (FLAT TYPE) (15 CORE) (33cm)	
2	X-4949-350-1	LID (R) ASSY, CASSETTE	
3	4-991-781-01	EMBLEM (VCD)	
4	X-4949-349-1	LID (L) ASSY, CASSETTE	
5	4-900-739-01	PANEL, LOADING	
6	1-769-984-11	WIRE (FLAT TYPE) (13 CORE) (23cm)	
7	3-363-099-11	SCREW (CASE 3 TP2) (3X8)	
8	3-363-099-71	SCREW (CASE 3 TP2) (3X12)	
* 9	4-996-728-01	CASE (EXCEPT IA)	
* 9	4-996-728-21	CASE (IA)	
10	1-773-048-11	WIRE (FLAT TYPE) (17 CORE)	

(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-4949-980-1	PANEL ASSY, FRONT	
52	4-930-336-61	FOOT (FELT)	
53	4-962-708-11	EMBLEM (4-A), SONY	
54	4-995-081-01	LATCH, DC	
55	4-996-722-01	KNOB (VOL)	
56	4-996-721-01	KNOB (JOG-U4)	
* 57	4-996-716-01	HOLDER (CDM)	
58	4-951-620-01	SCREW (2.6X8), +BVTP	
59	4-986-893-51	KNOB (MICROPHONE)	
* 60	1-670-067-11	CD-SW BOARD	
* 61	A-4414-008-A	PANEL BOARD, COMPLETE	
* 62	1-670-070-11	HP BOARD	
* 63	3-973-975-21	DAMPER, OIL	
64	4-996-704-01	BUTTON (POWER) (**I**/⏻)	
65	4-997-070-01	BUTTON (OPEN/CLOSE) (⏏)	
66	X-4949-348-1	BUTTON (REC) ASSY (● REC, ❚❚ PAUSE, HI-DUB, CD SYNC)	
67	4-996-733-01	SPRING (B DECK)	
68	4-996-732-01	SPRING (A DECK)	

(3) CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
* 101	A-4414-003-A	POWER AMP BOARD, COMPLETE (EXCEPT CH)	
* 101	A-4414-014-A	POWER AMP BOARD, COMPLETE (CH)	
* 102	3-703-244-00	BUSHING (2104), CORD (EXCEPT TH, IA)	
102	3-703-571-11	BUSHING (S) (4516), CORD (TH)	
102	4-966-266-01	BUSHING (S) (FBS002), CORD (IA)	
* 103	1-670-069-11	TRANSFORMER BOARD	
* 104	4-996-736-01	DUCT (A)	
* 105	4-996-701-01	DUCT (B)	
106	1-775-212-11	WIRE (FLAT TYPE) (23 CORE)	
* 107	4-999-906-01	PANEL, BACK (SP, MY)	
* 107	4-999-906-11	PANEL, BACK (EA)	
* 107	4-999-906-21	PANEL, BACK (CH)	
* 107	4-999-906-31	PANEL, BACK (HK)	
* 107	4-999-906-41	PANEL, BACK (TW)	
* 107	4-999-906-51	PANEL, BACK (IA)	
* 107	4-999-906-61	PANEL, BACK (TH)	
108	1-773-008-11	WIRE (FLAT TYPE) (15 CORE) (14cm)	
109	1-233-545-11	ENCAPSULATED COMPONENT (TH)	
109	1-693-381-11	TUNER, FM/AM (CH)	
109	1-693-421-11	TUNER (FM/AM) (EXCEPT TH, CH)	
* 110	A-4414-000-A	MAIN BOARD, COMPLETE (EXCEPT TH, CH)	
* 110	A-4414-011-A	MAIN BOARD, COMPLETE (CH)	
* 110	A-4414-494-A	MAIN BOARD, COMPLETE (TH)	
111	4-965-822-01	FOOT	
* 112	4-988-533-01	HOLDER, PWB	
113	4-956-370-12	BAND, PLUG FIXED (HK)	
⚠114	1-575-651-11	CORD, POWER (EA, HK, SP, MY, TW)	
⚠114	1-575-653-11	CORD, POWER (IA, TH)	
⚠114	1-782-464-21	CORD, POWER (CH)	
⚠115	1-569-007-11	ADAPTOR, CONVERSION 2P (IA)	
⚠115	1-569-008-21	ADAPTOR, CONVERSION 2P (EA, SP, MY, TW)	
⚠115	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
116	1-751-688-11	WIRE (FLAT TYPE) (13 CORE) (17cm)	
* 117	A-4414-186-A	VIDEO BOARD, COMPLETE (EXCEPT CH)	
* 117	A-4724-279-A	VIDEO BOARD, COMPLETE (CH)	
⚠T11	1-431-830-11	TRANSFORMER, POWER	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

SECTION 5
ELECTRICAL PARTS LIST

MAIN

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  CH : Chinese IA : Indonesia TH : Thai
  EA : Saudi Arabia MY : Malaysia TW : Taiwan
  HK : Hong Kong SP : Singapore
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. .
  uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-4414-000-A	MAIN BOARD, COMPLETE (EXCEPT TH, CH)			
*	A-4414-011-A	MAIN BOARD, COMPLETE (CH)			
*	A-4414-494-A	MAIN BOARD, COMPLETE (TH)			
		**********			
		< CAPACITOR >			
C101	1-162-286-31	CERAMIC	220PF	10%	50V
C102	1-162-286-31	CERAMIC	220PF	10%	50V
C111	1-137-195-11	FILM	0.56uF	5%	50V
C112	1-136-158-00	FILM	0.027uF	5%	50V
C115	1-136-159-00	FILM	0.033uF	5%	50V
C116	1-130-473-00	MYLAR	0.0015uF	5%	50V
C119	1-130-479-00	MYLAR	0.0047uF	5%	50V
C120	1-130-477-00	MYLAR	0.0033uF	5%	50V
C121	1-126-964-11	ELECT	10uF	20%	50V
C122	1-162-291-31	CERAMIC	560PF	10%	50V
C123	1-136-165-00	FILM	0.1uF	5%	50V
C124	1-136-165-00	FILM	0.1uF	5%	50V
C125	1-126-964-11	ELECT	10uF	20%	50V
C131	1-104-664-11	ELECT	47uF	20%	16V
C132	1-104-664-11	ELECT	47uF	20%	16V
C133	1-164-159-11	CERAMIC	0.1uF		50V
C134	1-164-159-11	CERAMIC	0.1uF		50V
C135	1-126-964-11	ELECT	10uF	20%	50V
C136	1-164-159-11	CERAMIC	0.1uF		50V
C141	1-126-959-11	ELECT	0.47uF	20%	50V
C151	1-162-286-31	CERAMIC	220PF	10%	50V
C152	1-162-286-31	CERAMIC	220PF	10%	50V
C161	1-137-195-11	FILM	0.56uF	5%	50V
C162	1-136-158-00	FILM	0.027uF	5%	50V
C165	1-136-159-00	FILM	0.033uF	5%	50V
C166	1-130-473-00	MYLAR	0.0015uF	5%	50V
C169	1-130-479-00	MYLAR	0.0047uF	5%	50V
C170	1-130-477-00	MYLAR	0.0033uF	5%	50V
C171	1-126-964-11	ELECT	10uF	20%	50V
C172	1-162-291-31	CERAMIC	560PF	10%	50V
C173	1-136-165-00	FILM	0.1uF	5%	50V
C174	1-136-165-00	FILM	0.1uF	5%	50V
C175	1-126-964-11	ELECT	10uF	20%	50V
C176	1-136-495-11	FILM	0.068uF	5%	50V
C177	1-136-153-00	FILM	0.01uF	5%	50V
C191	1-126-964-11	ELECT	10uF	20%	50V
C192	1-162-292-31	CERAMIC	680PF	10%	50V
C193	1-126-964-11	ELECT	10uF	20%	50V
C194	1-162-286-31	CERAMIC	220PF	10%	50V
C195	1-162-306-11	CERAMIC	0.01uF	20%	16V
C196	1-162-306-11	CERAMIC	0.01uF	20%	16V
C301	1-126-160-11	ELECT	1uF	20%	50V
C302	1-130-479-00	MYLAR	0.0047uF	5%	50V
C303	1-136-165-00	FILM	0.1uF	5%	50V
C304	1-136-165-00	FILM	0.1uF	5%	50V
C305	1-126-964-11	ELECT	10uF	20%	50V
C306	1-126-160-11	ELECT	1uF	20%	50V
C307	1-126-959-11	ELECT	0.47uF	20%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-136-173-00	FILM	0.47uF	5%	50V
C310	1-162-290-31	CERAMIC	470PF	10%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-959-11	ELECT	0.47uF	20%	50V
C313	1-162-294-31	CERAMIC	0.001uF	10%	50V
C314	1-126-964-11	ELECT	10uF	20%	50V
C315	1-126-963-11	ELECT	4.7uF	20%	50V
C316	1-104-665-11	ELECT	100uF	20%	10V
C317	1-104-665-11	ELECT	100uF	20%	10V
C320	1-162-290-31	CERAMIC	470PF	10%	50V
C331	1-164-159-11	CERAMIC	0.1uF		50V
C332	1-164-159-11	CERAMIC	0.1uF		50V
C333	1-162-600-11	CERAMIC	0.0047uF	20%	16V
C334	1-162-600-11	CERAMIC	0.0047uF	20%	16V
C351	1-126-160-11	ELECT	1uF	20%	50V
C352	1-130-479-00	MYLAR	0.0047uF	5%	50V
C353	1-136-165-00	FILM	0.1uF	5%	50V
C354	1-136-165-00	FILM	0.1uF	5%	50V
C355	1-126-964-11	ELECT	10uF	20%	50V
C356	1-126-160-11	ELECT	1uF	20%	50V
C357	1-126-959-11	ELECT	0.47uF	20%	50V
C358	1-126-964-11	ELECT	10uF	20%	50V
C359	1-136-173-00	FILM	0.47uF	5%	50V
C381	1-162-306-11	CERAMIC	0.01uF	20%	16V
C382	1-104-665-11	ELECT	100uF	20%	10V
C391	1-164-159-11	CERAMIC	0.1uF		50V
C392	1-126-916-11	ELECT	1000uF	20%	6.3V
C393	1-164-159-11	CERAMIC	0.1uF		50V
C394	1-126-925-11	ELECT	470uF	20%	10V

MAIN

Ref. No.	Part No.	Description			Remark
C396	1-126-961-11	ELECT	2.2uF	20%	50V
C397	1-126-961-11	ELECT	2.2uF	20%	50V
C401	1-136-495-11	FILM	0.068uF	5%	50V (CH)
C402	1-136-495-11	FILM	0.068uF	5%	50V (CH)
C403	1-164-159-11	CERAMIC	0.1uF		50V (CH)
C431	1-126-934-11	ELECT	220uF	20%	10V
C432	1-104-665-11	ELECT	100uF	20%	10V
C433	1-126-961-11	ELECT	2.2uF	20%	50V
C451	1-136-495-11	FILM	0.068uF	5%	50V (CH)
C452	1-136-495-11	FILM	0.068uF	5%	50V (CH)
C453	1-164-159-11	CERAMIC	0.1uF		50V (CH)
C501	1-104-664-11	ELECT	47uF	20%	10V
C502	1-164-159-11	CERAMIC	0.1uF		50V
C503	1-136-173-00	FILM	0.47uF	5%	50V
C504	1-126-916-11	ELECT	1000uF	20%	6.3V
C505	1-162-306-11	CERAMIC	0.01uF	20%	16V
C506	1-136-165-00	FILM	0.1uF	5%	50V
C507	1-164-159-11	CERAMIC	0.1uF		50V
C508	1-104-665-11	ELECT	100uF	20%	10V
C509	1-102-958-00	CERAMIC	20PF	5%	50V
C510	1-102-514-11	CERAMIC	22PF	5%	50V
C571	1-109-889-11	ELECT	1uF	20%	50V
C901	1-136-165-00	FILM	0.1uF	5%	50V
C902	1-111-235-61	ELECT	10000uF	20%	25V
C903	1-104-666-11	ELECT	220uF	20%	25V
C904	1-104-664-11	ELECT	47uF	20%	16V
C905	1-104-661-91	ELECT	330uF	20%	16V
C909	1-126-964-11	ELECT	10uF	20%	50V
C910	1-104-665-11	ELECT	100uF	20%	10V
C911	1-126-964-11	ELECT	10uF	20%	50V
C912	1-126-767-11	ELECT	1000uF	20%	16V
C913	1-126-943-11	ELECT	2200uF	20%	25V
C914	1-126-767-11	ELECT	1000uF	20%	16V
C915	1-104-664-11	ELECT	47uF	20%	16V
C916	1-164-159-11	CERAMIC	0.1uF		50V
C917	1-126-933-11	ELECT	100uF	20%	16V
C918	1-126-968-11	ELECT	100uF	20%	50V
C919	1-126-968-11	ELECT	100uF	20%	50V
C920	1-126-964-11	ELECT	10uF	20%	50V
C921	1-126-947-11	ELECT	47uF	20%	35V
C922	1-126-964-11	ELECT	10uF	20%	50V
C923	1-126-767-11	ELECT	1000uF	20%	16V
C951	1-136-165-00	FILM	0.1uF	5%	50V
C952	1-126-943-11	ELECT	2200uF	20%	25V
C953	1-104-666-11	ELECT	220uF	20%	25V
C955	1-104-661-91	ELECT	330uF	20%	16V
		< CONNECTOR >			
CN101	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P			
CN102	1-568-834-11	SOCKET, CONNECTOR 15P			
* CN103	1-568-946-11	PIN, CONNECTOR 8P			
* CN104	1-568-947-11	PIN, CONNECTOR 9P			
CN105	1-784-601-11	SOCKET, CONNECTOR (NON ZIF)13P			
CN106	1-568-834-11	SOCKET, CONNECTOR 15P			
* CN107	1-568-836-11	SOCKET, CONNECTOR 17P			
* CN201	1-568-832-11	SOCKET, CONNECTOR 13P			
* CN301	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P			
		< DIODE >			
D141	8-719-911-19	DIODE 1SS119			
D333	8-719-911-19	DIODE 1SS119			
D334	8-719-911-19	DIODE 1SS119			
D401	8-719-911-19	DIODE 1SS119			
D501	8-719-024-99	DIODE 11ES2-NTA2B			
D502	8-719-024-99	DIODE 11ES2-NTA2B			
D503	8-719-911-19	DIODE 1SS119			
D504	8-719-911-19	DIODE 1SS119			
D505	8-719-911-19	DIODE 1SS119			
D506	8-719-911-19	DIODE 1SS119			
D507	8-719-024-99	DIODE 11ES2-NTA2B			
D508	8-719-911-19	DIODE 1SS119			
D901	8-719-975-85	DIODE ERB83-004			
D902	8-719-975-85	DIODE ERB83-004			
D903	8-719-975-85	DIODE ERB83-004			
D904	8-719-975-85	DIODE ERB83-004			
D905	8-719-933-36	DIODE HZS6B1L			
D906	8-719-911-19	DIODE 1SS119			
D907	8-719-024-99	DIODE 11ES2-NTA2B			
D908	8-719-024-99	DIODE 11ES2-NTA2B			
D909	8-719-024-99	DIODE 11ES2-NTA2B			
D910	8-719-024-99	DIODE 11ES2-NTA2B			
D911	8-719-934-25	DIODE HZS33-1L			
D912	8-719-921-48	DIODE MTZJ-T-72-5.6C			
D913	8-719-911-19	DIODE 1SS119			
D914	8-719-024-99	DIODE 11ES2-NTA2B			
D915	8-719-935-69	DIODE HZS11B1LTA			
D917	8-719-911-19	DIODE 1SS119			
D918	8-719-024-99	DIODE 11ES2-NTA2B			
		< GROUND PLATE >			
* EPT1	4-870-539-11	PLATE, GROUND			
		< IC >			
IC101	8-759-495-86	IC M62442FP-A-TP			
IC102	8-759-634-51	IC M5218AP			
IC191	8-759-634-50	IC M5218AL			
IC301	8-759-495-26	IC HA12215			
IC381	8-749-923-04	IC TOTX178 (CD DIGITAL OUT, OPTICAL)			
IC501	8-759-546-35	IC uPD780016AYGF-014-3BA			
IC502	8-759-635-63	IC M51943BSL			
IC901	8-759-604-86	IC M5F7807L			
IC902	8-759-231-53	IC TA7805S			
IC903	8-759-231-58	IC TA7812S			
IC904	8-759-231-53	IC TA7805S			
		< JACK >			
J101	1-695-188-31	JACK, PIN 4P (MD/VIDEO (AUDIO), IN/OUT)			
J191	1-774-785-11	JACK, PIN 1P (SUPER WOOFER)			
		< COIL >			
L381	1-410-521-11	INDUCTOR 100uH			
L401	1-420-872-00	COIL, AIR-CORE (CH)			

Ref. No.	Part No.	Description	Remark
L451	1-420-872-00	COIL, AIR-CORE (CH)	
L501	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q111	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q112	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q113	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q161	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q162	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q163	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q191	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q331	8-729-116-59	TRANSISTOR 2SB1068TP	
Q332	8-729-029-66	TRANSISTOR DTC114ESA	
Q333	8-729-116-59	TRANSISTOR 2SB1068TP	
Q334	8-729-029-66	TRANSISTOR DTC114ESA	
Q335	8-729-029-66	TRANSISTOR DTC114ESA	
Q336	8-729-116-59	TRANSISTOR 2SB1068TP	
Q337	8-729-045-21	TRANSISTOR 2SD1513TP-LK	
Q338	8-729-029-21	TRANSISTOR DTA114ESA-TP	
Q339	8-729-029-66	TRANSISTOR DTC114ESA	
Q340	8-729-116-59	TRANSISTOR 2SB1068TP	
Q341	8-729-045-21	TRANSISTOR 2SD1513TP-LK	
Q342	8-729-029-21	TRANSISTOR DTA114ESA-TP	
Q343	8-729-029-66	TRANSISTOR DTC114ESA	
Q431	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q432	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q433	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q434	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q435	8-729-029-86	TRANSISTOR DTC124ESA	
Q436	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q437	8-729-029-86	TRANSISTOR DTC124ESA	
Q501	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q571	8-729-029-40	TRANSISTOR DTA124ESA	
Q572	8-729-029-40	TRANSISTOR DTA124ESA	
Q575	8-729-029-86	TRANSISTOR DTC124ESA	
Q901	8-729-209-15	TRANSISTOR 2SD2012	
Q902	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q903	8-729-029-68	TRANSISTOR DTC114TSA	
Q905	8-729-040-20	TRANSISTOR RT1P137L-TP	
Q906	8-729-029-40	TRANSISTOR DTA124ESA	
Q907	8-729-040-20	TRANSISTOR RT1P137L-TP	
Q908	8-729-029-86	TRANSISTOR DTC124ESA	
Q909	8-729-026-68	TRANSISTOR 2SD2525 (TP)	
Q910	8-729-030-19	TRANSISTOR 2SB1640	
Q911	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q912	8-729-900-36	TRANSISTOR DTC124ES	
Q913	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q914	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q951	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q952	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		< RESISTOR >	
R101	1-249-417-11	CARBON 1K 5% 1/4W	
R102	1-249-417-11	CARBON 1K 5% 1/4W	
R111	1-249-429-11	CARBON 10K 5% 1/4W	
R112	1-247-903-00	CARBON 1M 5% 1/4W	
R113	1-247-903-00	CARBON 1M 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R114	1-249-419-11	CARBON 1.5K 5% 1/4W	
R115	1-249-433-11	CARBON 22K 5% 1/4W	
R116	1-247-887-00	CARBON 220K 5% 1/4W	
R117	1-249-429-11	CARBON 10K 5% 1/4W	
R118	1-249-437-11	CARBON 47K 5% 1/4W	
R119	1-249-421-11	CARBON 2.2K 5% 1/4W	
R120	1-249-441-11	CARBON 100K 5% 1/4W	
R121	1-249-429-11	CARBON 10K 5% 1/4W	
R123	1-249-437-11	CARBON 47K 5% 1/4W	
R124	1-249-421-11	CARBON 2.2K 5% 1/4W	
R125	1-247-843-11	CARBON 3.3K 5% 1/4W	
R126	1-249-437-11	CARBON 47K 5% 1/4W	
R127	1-249-437-11	CARBON 47K 5% 1/4W	
R128	1-249-421-11	CARBON 2.2K 5% 1/4W	
R131	1-247-807-31	CARBON 100 5% 1/4W	
R132	1-247-807-31	CARBON 100 5% 1/4W	
R133	1-247-807-31	CARBON 100 5% 1/4W	
R141	1-249-433-11	CARBON 22K 5% 1/4W	
R142	1-249-433-11	CARBON 22K 5% 1/4W	
R143	1-249-417-11	CARBON 1K 5% 1/4W	
R144	1-249-441-11	CARBON 100K 5% 1/4W	
R145	1-247-903-00	CARBON 1M 5% 1/4W	
R151	1-249-417-11	CARBON 1K 5% 1/4W	
R152	1-249-417-11	CARBON 1K 5% 1/4W	
R161	1-249-429-11	CARBON 10K 5% 1/4W	
R162	1-247-903-00	CARBON 1M 5% 1/4W	
R163	1-247-903-00	CARBON 1M 5% 1/4W	
R164	1-249-419-11	CARBON 1.5K 5% 1/4W	
R165	1-249-433-11	CARBON 22K 5% 1/4W	
R166	1-247-887-00	CARBON 220K 5% 1/4W	
R167	1-249-429-11	CARBON 10K 5% 1/4W	
R168	1-249-437-11	CARBON 47K 5% 1/4W	
R169	1-249-421-11	CARBON 2.2K 5% 1/4W	
R170	1-249-441-11	CARBON 100K 5% 1/4W	
R171	1-249-429-11	CARBON 10K 5% 1/4W	
R173	1-249-437-11	CARBON 47K 5% 1/4W	
R178	1-249-421-11	CARBON 2.2K 5% 1/4W	
R191	1-249-437-11	CARBON 47K 5% 1/4W	
R192	1-249-437-11	CARBON 47K 5% 1/4W	
R193	1-249-437-11	CARBON 47K 5% 1/4W	
R194	1-247-843-11	CARBON 3.3K 5% 1/4W	
R195	1-249-429-11	CARBON 10K 5% 1/4W	
R196	1-249-417-11	CARBON 1K 5% 1/4W	
R197	1-249-441-11	CARBON 100K 5% 1/4W	
R198	1-249-417-11	CARBON 1K 5% 1/4W	
R199	1-249-429-11	CARBON 10K 5% 1/4W	
R301	1-249-435-11	CARBON 33K 5% 1/4W	
R302	1-249-421-11	CARBON 2.2K 5% 1/4W	
R303	1-247-807-31	CARBON 100 5% 1/4W	
R304	1-247-807-31	CARBON 100 5% 1/4W	
R305	1-249-421-11	CARBON 2.2K 5% 1/4W	
R306	1-249-428-11	CARBON 8.2K 5% 1/4W	
R307	1-249-428-11	CARBON 8.2K 5% 1/4W	
R308	1-249-425-11	CARBON 4.7K 5% 1/4W	
R309	1-249-433-11	CARBON 22K 5% 1/4W	
R311	1-247-903-00	CARBON 1M 5% 1/4W	
R312	1-247-884-11	CARBON 160K 5% 1/4W	
R313	1-249-441-11	CARBON 100K 5% 1/4W	

MAIN

Ref. No.	Part No.	Description			Remark
R315	1-249-429-11	CARBON	10K	5%	1/4W
R316	1-249-432-11	CARBON	18K	5%	1/4W
R317	1-249-429-11	CARBON	10K	5%	1/4W
R318	1-249-429-11	CARBON	10K	5%	1/4W
R319	1-247-893-11	CARBON	390K	5%	1/4W
R321	1-249-422-11	CARBON	2.7K	5%	1/4W
R322	1-249-428-11	CARBON	8.2K	5%	1/4W
R324	1-247-876-11	CARBON	75K	5%	1/4W
R325	1-249-437-11	CARBON	47K	5%	1/4W
R326	1-249-437-11	CARBON	47K	5%	1/4W
R327	1-249-437-11	CARBON	47K	5%	1/4W
R328	1-247-876-11	CARBON	75K	5%	1/4W
R329	1-249-417-11	CARBON	1K	5%	1/4W
R330	1-249-425-11	CARBON	4.7K	5%	1/4W
R331	1-249-425-11	CARBON	4.7K	5%	1/4W
R332	1-249-415-11	CARBON	680	5%	1/4W
R333	1-249-421-11	CARBON	2.2K	5%	1/4W
R334	1-249-415-11	CARBON	680	5%	1/4W
R335	1-249-421-11	CARBON	2.2K	5%	1/4W
R336	1-249-437-11	CARBON	47K	5%	1/4W
R337	1-249-417-11	CARBON	1K	5%	1/4W
R338	1-249-411-11	CARBON	330	5%	1/4W
R339	1-249-437-11	CARBON	47K	5%	1/4W
R340	1-249-437-11	CARBON	47K	5%	1/4W
R341	1-249-411-11	CARBON	330	5%	1/4W
R342	1-249-437-11	CARBON	47K	5%	1/4W
R343	1-249-417-11	CARBON	1K	5%	1/4W
R351	1-249-435-11	CARBON	33K	5%	1/4W
R352	1-249-421-11	CARBON	2.2K	5%	1/4W
R353	1-247-807-31	CARBON	100	5%	1/4W
R354	1-247-807-31	CARBON	100	5%	1/4W
R355	1-249-421-11	CARBON	2.2K	5%	1/4W
R356	1-249-428-11	CARBON	8.2K	5%	1/4W
R357	1-249-428-11	CARBON	8.2K	5%	1/4W
R358	1-249-425-11	CARBON	4.7K	5%	1/4W
R359	1-249-435-11	CARBON	33K	5%	1/4W
R391	1-247-807-31	CARBON	100	5%	1/4W
R392	1-247-807-31	CARBON	100	5%	1/4W
R393	1-249-435-11	CARBON	33K	5%	1/4W
R394	1-249-435-11	CARBON	33K	5%	1/4W
R395	1-249-435-11	CARBON	33K	5%	1/4W
R401	1-260-076-11	CARBON	10	5%	1/2W (CH)
R402	1-260-076-11	CARBON	10	5%	1/2W (CH)
⚠R411	1-216-456-00	METAL OXIDE	820	5%	2W F
R421	1-260-091-11	CARBON	220	5%	1/2W
R422	1-260-091-11	CARBON	220	5%	1/2W
R431	1-249-438-11	CARBON	56K	5%	1/4W
R432	1-249-437-11	CARBON	47K	5%	1/4W
R435	1-249-425-11	CARBON	4.7K	5%	1/4W
R437	1-249-429-11	CARBON	10K	5%	1/4W
R438	1-249-429-11	CARBON	10K	5%	1/4W
R439	1-249-425-11	CARBON	4.7K	5%	1/4W
R440	1-247-903-00	CARBON	1M	5%	1/4W
R441	1-249-429-11	CARBON	10K	5%	1/4W
R443	1-249-417-11	CARBON	1K	5%	1/4W
R451	1-260-076-11	CARBON	10	5%	1/2W (CH)
R452	1-260-076-11	CARBON	10	5%	1/2W (CH)
R471	1-260-091-11	CARBON	220	5%	1/2W
R472	1-260-091-11	CARBON	220	5%	1/2W
R501	1-249-413-11	CARBON	470	5%	1/4W
R502	1-249-425-11	CARBON	4.7K	5%	1/4W
R503	1-249-437-11	CARBON	47K	5%	1/4W
R504	1-249-437-11	CARBON	47K	5%	1/4W
R505	1-249-429-11	CARBON	10K	5%	1/4W
R507	1-247-897-11	CARBON	560K	5%	1/4W
R508	1-249-425-11	CARBON	4.7K	5%	1/4W
R511	1-249-431-11	CARBON	15K	5%	1/4W (TH, CH)
R512	1-249-415-11	CARBON	680	5%	1/4W (TH, CH)
R524	1-249-429-11	CARBON	10K	5%	1/4W
R526	1-249-429-11	CARBON	10K	5%	1/4W
R531	1-247-807-31	CARBON	100	5%	1/4W
R532	1-247-807-31	CARBON	100	5%	1/4W
R533	1-247-807-31	CARBON	100	5%	1/4W
R535	1-247-807-31	CARBON	100	5%	1/4W
R536	1-247-807-31	CARBON	100	5%	1/4W
R537	1-247-807-31	CARBON	100	5%	1/4W
R538	1-247-807-31	CARBON	100	5%	1/4W
R539	1-247-807-31	CARBON	100	5%	1/4W
R540	1-247-807-31	CARBON	100	5%	1/4W
R541	1-247-807-31	CARBON	100	5%	1/4W
R542	1-247-807-31	CARBON	100	5%	1/4W
R543	1-247-807-31	CARBON	100	5%	1/4W
R544	1-249-429-11	CARBON	10K	5%	1/4W
R545	1-247-807-31	CARBON	100	5%	1/4W
R546	1-247-843-11	CARBON	3.3K	5%	1/4W
R547	1-249-413-11	CARBON	470	5%	1/4W
R550	1-247-807-31	CARBON	100	5%	1/4W
R551	1-247-807-31	CARBON	100	5%	1/4W
R552	1-247-807-31	CARBON	100	5%	1/4W
R553	1-249-429-11	CARBON	10K	5%	1/4W
R554	1-247-807-31	CARBON	100	5%	1/4W
R555	1-249-429-11	CARBON	10K	5%	1/4W
R556	1-247-807-31	CARBON	100	5%	1/4W
R557	1-249-429-11	CARBON	10K	5%	1/4W
R558	1-247-807-31	CARBON	100	5%	1/4W
R559	1-249-429-11	CARBON	10K	5%	1/4W
R561	1-247-807-31	CARBON	100	5%	1/4W
R562	1-247-807-31	CARBON	100	5%	1/4W
R563	1-247-807-31	CARBON	100	5%	1/4W
R564	1-247-807-31	CARBON	100	5%	1/4W
R565	1-247-807-31	CARBON	100	5%	1/4W
R566	1-247-807-31	CARBON	100	5%	1/4W
R567	1-247-807-31	CARBON	100	5%	1/4W
R571	1-249-421-11	CARBON	2.2K	5%	1/4W
R572	1-249-441-11	CARBON	100K	5%	1/4W
R576	1-249-429-11	CARBON	10K	5%	1/4W
R577	1-249-417-11	CARBON	1K	5%	1/4W
R901	1-247-843-11	CARBON	3.3K	5%	1/4W
R902	1-249-415-11	CARBON	680	5%	1/4W

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
R903	1-249-419-11	CARBON	1.5K	5%	1/4W
R904	1-249-414-11	CARBON	560	5%	1/4W
R905	1-249-425-11	CARBON	4.7K	5%	1/4W
R906	1-247-843-11	CARBON	3.3K	5%	1/4W
R907	1-249-415-11	CARBON	680	5%	1/4W
R908	1-249-429-11	CARBON	10K	5%	1/4W
R909	1-249-430-11	CARBON	12K	5%	1/4W
R911	1-249-409-11	CARBON	220	5%	1/4W
R912	1-249-417-11	CARBON	1K	5%	1/4W
R913	1-249-425-11	CARBON	4.7K	5%	1/4W
R914	1-249-409-11	CARBON	220	5%	1/4W
R915	1-249-409-11	CARBON	220	5%	1/4W
R916	1-249-421-11	CARBON	2.2K	5%	1/4W
R917	1-249-409-11	CARBON	220	5%	1/4W
R920	1-249-383-11	CARBON	1.5	5%	1/6W
R921	1-249-383-11	CARBON	1.5	5%	1/6W
		< VARIABLE RESISTOR >			
RV301	1-238-600-11	RES, ADJ, CARBON 10K			
RV351	1-238-600-11	RES, ADJ, CARBON 10K			
		< RELAY >			
RY401	1-515-920-11	RELAY (24V)			
		< TERMINAL >			
TM401	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SPEAKER)			
		< VIBRATOR >			
X501	1-760-489-11	VIBRATOR, CERAMIC (5MHz)			
X502	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
*	A-4414-008-A	PANEL BOARD, COMPLETE			
		**********			
*	4-949-935-21	CUSHION (FL)			
*	4-996-724-01	HOLDER, FL TUBE			
		< CAPACITOR >			
C601	1-164-159-11	CERAMIC	0.1uF		50V
C602	1-162-306-11	CERAMIC	0.01uF	20%	16V
C603	1-124-589-11	ELECT	47uF	20%	16V
C604	1-126-163-11	ELECT	4.7uF	20%	50V
C605	1-162-294-31	CERAMIC	0.001uF	10%	50V
C606	1-126-160-11	ELECT	1uF	20%	50V
C607	1-126-160-11	ELECT	1uF	20%	50V
C608	1-162-294-31	CERAMIC	0.001uF	10%	50V
C609	1-162-282-31	CERAMIC	100PF	10%	50V
C610	1-162-282-31	CERAMIC	100PF	10%	50V
C611	1-162-282-31	CERAMIC	100PF	10%	50V
C612	1-162-282-31	CERAMIC	100PF	10%	50V
C613	1-162-282-31	CERAMIC	100PF	10%	50V
C614	1-162-282-31	CERAMIC	100PF	10%	50V
C615	1-162-282-31	CERAMIC	100PF	10%	50V
C616	1-162-282-31	CERAMIC	100PF	10%	50V
C617	1-162-282-31	CERAMIC	100PF	10%	50V
C618	1-162-282-31	CERAMIC	100PF	10%	50V
C619	1-162-282-31	CERAMIC	100PF	10%	50V
C620	1-162-282-31	CERAMIC	100PF	10%	50V
C621	1-162-282-31	CERAMIC	100PF	10%	50V
C625	1-162-294-31	CERAMIC	0.001uF	10%	50V
C626	1-124-589-11	ELECT	47uF	20%	16V
C627	1-162-306-11	CERAMIC	0.01uF	20%	16V
C628	1-162-306-11	CERAMIC	0.01uF	20%	16V
C629	1-162-306-11	CERAMIC	0.01uF	20%	16V
C630	1-162-306-11	CERAMIC	0.01uF	20%	16V
C631	1-126-157-11	ELECT	10uF	20%	16V
C632	1-126-157-11	ELECT	10uF	20%	16V
C633	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C634	1-126-157-11	ELECT	10uF	20%	16V
C635	1-126-163-11	ELECT	4.7uF	20%	50V
C636	1-162-294-31	CERAMIC	0.001uF	10%	50V
C648	1-162-306-11	CERAMIC	0.01uF	20%	16V
C649	1-124-589-11	ELECT	47uF	20%	16V
C749	1-164-159-11	CERAMIC	0.1uF		50V
C750	1-162-306-11	CERAMIC	0.01uF	20%	16V
C751	1-126-961-11	ELECT	2.2uF	20%	50V
C752	1-164-159-11	CERAMIC	0.1uF		50V
C753	1-162-290-31	CERAMIC	470PF	10%	50V
C754	1-162-306-11	CERAMIC	0.01uF	20%	16V
C755	1-126-961-11	ELECT	2.2uF	20%	50V
C756	1-162-294-31	CERAMIC	0.001uF	10%	50V
C757	1-162-215-31	CERAMIC	47PF	5%	50V
C758	1-126-964-11	ELECT	10uF	20%	50V
C759	1-126-956-91	ELECT	0.1uF	20%	50V
C760	1-162-215-31	CERAMIC	47PF	5%	50V
C761	1-162-282-31	CERAMIC	100PF	10%	50V
C762	1-126-961-11	ELECT	2.2uF	20%	50V
C764	1-126-964-11	ELECT	10uF	20%	50V
C765	1-126-960-11	ELECT	1uF	20%	50V
C766	1-162-305-11	CERAMIC	0.0068uF	20%	16V
C767	1-162-294-31	CERAMIC	0.001uF	10%	50V
C768	1-136-495-11	FILM	0.068uF	5%	50V
C769	1-126-959-11	ELECT	0.47uF	20%	50V
C770	1-126-959-11	ELECT	0.47uF	20%	50V
C771	1-104-664-11	ELECT	47uF	20%	25V
C772	1-164-159-11	CERAMIC	0.1uF		50V
C773	1-104-664-11	ELECT	47uF	20%	25V
C774	1-136-495-11	FILM	0.068uF	5%	50V
C775	1-162-305-11	CERAMIC	0.0068uF	20%	16V
C776	1-162-294-31	CERAMIC	0.001uF	10%	50V
C777	1-136-167-00	FILM	0.15uF	5%	50V
C778	1-126-960-11	ELECT	1uF	20%	50V
C779	1-161-494-00	CERAMIC	0.022uF		25V
C780	1-126-961-11	ELECT	2.2uF	20%	50V
		< CONNECTOR >			
* CN601	1-568-856-11	SOCKET, CONNECTOR 13P			
		< DIODE >			
D602	8-719-986-73	DIODE RB441Q			
D610	8-719-063-93	LED SLR325VC-N-T32 (ENTER/NEXT)			
D612	8-719-057-97	LED SEL5923A-TP15 (GROOVE)			
D613	8-719-063-93	LED SLR325VC-N-T32 (JOG)			
D614	8-719-064-65	LED SELU5723C-TP15 (DJ MIX)			

PANEL

Ref. No.	Part No.	Description	Remark
D615	8-719-064-65	LED SELU5723C-TP15 (DJ MIX)	
D616	8-719-063-93	LED SLR325VC-N-T32 (CD NON-STOP)	
D617	8-719-057-97	LED SEL5923A-TP15 (+, ►►)	
D618	8-719-057-97	LED SEL5923A-TP15 (–, ◄◄)	
D621	8-719-056-13	LED SML79423C-TP15 (CD, ►II)	
D622	8-719-058-03	LED SEL5423E-TP15 (TAPE B, ►)	
D623	8-719-058-03	LED SEL5423E-TP15 (TAPE B, ◄)	
D624	8-719-058-03	LED SEL5423E-TP15 (TAPE A, ►)	
D625	8-719-058-03	LED SEL5423E-TP15 (TAPE A, ◄)	
D626	8-719-057-97	LED SEL5923A-TP15 (PBC)	
D627	8-719-057-97	LED SEL5923A-TP15 (PBC OFF)	
D628	8-719-057-97	LED SEL5923A-TP15 (VIDEO CD)	
D651	8-719-063-93	LED SLR325VC-N-T32 (● REC)	
D652	8-719-057-97	LED SEL5923A-TP15 (II PAUSE)	
D751	8-719-024-99	DIODE 11ES2-NTA2B	
D752	8-719-024-99	DIODE 11ES2-NTA2B	
D753	8-719-024-99	DIODE 11ES2-NTA2B	
		< LEAD >	
EL2	1-690-880-51	LEAD (WITH CONNECTOR)	
		< FERRITE BEAD >	
FB601	1-410-397-21	FERRITE BEAD INDUCTOR	
		< FLUORESCENT INDICATOR TUBE >	
FL601	1-517-731-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC601	8-759-536-41	IC TMP87PM74F-6695	
IC602	8-749-011-05	IC GP1U28X	
IC603	8-759-495-25	IC BA3833F-E2	
IC750	8-759-634-51	IC M5218AP	
IC751	8-759-496-41	IC M65850FP-E1	
		< JACK >	
J750	1-785-200-11	JACK (LARGE TYPE) (MIC2)	
J751	1-785-200-11	JACK (LARGE TYPE) (MIC1)	
		< COIL >	
L601	1-410-509-11	INDUCTOR 10uH	
L751	1-410-521-11	INDUCTOR 100uH	
		< TRANSISTOR >	
Q601	8-729-118-00	TRANSISTOR 2SB1116-L	
Q602	8-729-118-00	TRANSISTOR 2SB1116-L	
Q603	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q604	8-729-029-68	TRANSISTOR DTC114TSA	
Q607	8-729-029-68	TRANSISTOR DTC114TSA	
Q608	8-729-029-68	TRANSISTOR DTC114TSA	
Q609	8-729-029-68	TRANSISTOR DTC114TSA	
Q610	8-729-029-68	TRANSISTOR DTC114TSA	
Q611	8-729-029-68	TRANSISTOR DTC114TSA	
Q618	8-729-029-68	TRANSISTOR DTC114TSA	
Q620	8-729-029-68	TRANSISTOR DTC114TSA	
Q621	8-729-029-68	TRANSISTOR DTC114TSA	

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R601	1-247-903-00	CARBON	1M	5%	1/4W
R602	1-247-807-31	CARBON	100	5%	1/4W
R604	1-249-429-11	CARBON	10K	5%	1/4W
R605	1-249-429-11	CARBON	10K	5%	1/4W
R606	1-249-429-11	CARBON	10K	5%	1/4W
R607	1-249-429-11	CARBON	10K	5%	1/4W
R608	1-247-843-11	CARBON	3.3K	5%	1/4W
R609	1-247-843-11	CARBON	3.3K	5%	1/4W
R610	1-247-807-31	CARBON	100	5%	1/4W
R611	1-247-807-31	CARBON	100	5%	1/4W
R612	1-249-401-11	CARBON	47	5%	1/4W
R613	1-249-415-11	CARBON	680	5%	1/4W
R614	1-249-431-11	CARBON	15K	5%	1/4W
R615	1-249-437-11	CARBON	47K	5%	1/4W
R616	1-249-441-11	CARBON	100K	5%	1/4W
R618	1-249-437-11	CARBON	47K	5%	1/4W
R619	1-249-435-11	CARBON	33K	5%	1/4W
R620	1-247-895-00	CARBON	470K	5%	1/4W
R621	1-249-430-11	CARBON	12K	5%	1/4W
R622	1-249-412-11	CARBON	390	5%	1/4W
R623	1-249-413-11	CARBON	470	5%	1/4W
R624	1-249-415-11	CARBON	680	5%	1/4W
R625	1-249-416-11	CARBON	820	5%	1/4W
R626	1-249-418-11	CARBON	1.2K	5%	1/4W
R627	1-249-419-11	CARBON	1.5K	5%	1/4W
R628	1-249-421-11	CARBON	2.2K	5%	1/4W
R629	1-249-422-11	CARBON	2.7K	5%	1/4W
R630	1-249-424-11	CARBON	3.9K	5%	1/4W
R631	1-249-426-11	CARBON	5.6K	5%	1/4W
R632	1-249-428-11	CARBON	8.2K	5%	1/4W
R633	1-249-430-11	CARBON	12K	5%	1/4W
R634	1-249-432-11	CARBON	18K	5%	1/4W
R636	1-249-430-11	CARBON	12K	5%	1/4W
R637	1-249-412-11	CARBON	390	5%	1/4W
R638	1-249-413-11	CARBON	470	5%	1/4W
R639	1-249-415-11	CARBON	680	5%	1/4W
R640	1-249-416-11	CARBON	820	5%	1/4W
R641	1-249-418-11	CARBON	1.2K	5%	1/4W
R642	1-249-419-11	CARBON	1.5K	5%	1/4W
R643	1-249-421-11	CARBON	2.2K	5%	1/4W
R644	1-249-422-11	CARBON	2.7K	5%	1/4W
R645	1-249-424-11	CARBON	3.9K	5%	1/4W
R646	1-249-426-11	CARBON	5.6K	5%	1/4W
R647	1-249-428-11	CARBON	8.2K	5%	1/4W
R648	1-249-430-11	CARBON	12K	5%	1/4W
R649	1-249-430-11	CARBON	12K	5%	1/4W
R650	1-249-412-11	CARBON	390	5%	1/4W
R651	1-249-413-11	CARBON	470	5%	1/4W
R652	1-249-415-11	CARBON	680	5%	1/4W
R653	1-249-416-11	CARBON	820	5%	1/4W
R654	1-249-418-11	CARBON	1.2K	5%	1/4W
R655	1-249-419-11	CARBON	1.5K	5%	1/4W
R661	1-249-429-11	CARBON	10K	5%	1/4W
R662	1-249-421-11	CARBON	2.2K	5%	1/4W
R663	1-249-421-11	CARBON	2.2K	5%	1/4W
R664	1-249-409-11	CARBON	220	5%	1/4W

Ref. No.	Part No.	Description			Remark
R665	1-249-429-11	CARBON	10K	5%	1/4W
R666	1-249-407-11	CARBON	150	5%	1/4W
R667	1-247-807-31	CARBON	100	5%	1/4W
R668	1-249-407-11	CARBON	150	5%	1/4W
R669	1-247-804-11	CARBON	75	5%	1/4W
R670	1-249-407-11	CARBON	150	5%	1/4W
R671	1-249-407-11	CARBON	150	5%	1/4W
R672	1-249-407-11	CARBON	150	5%	1/4W
R674	1-247-804-11	CARBON	75	5%	1/4W
R675	1-247-804-11	CARBON	75	5%	1/4W
R676	1-247-804-11	CARBON	75	5%	1/4W
R677	1-247-804-11	CARBON	75	5%	1/4W
R678	1-247-804-11	CARBON	75	5%	1/4W
R679	1-247-804-11	CARBON	75	5%	1/4W
R680	1-247-807-31	CARBON	100	5%	1/4W
R681	1-247-807-31	CARBON	100	5%	1/4W
R682	1-247-807-31	CARBON	100	5%	1/4W
R683	1-249-441-11	CARBON	100K	5%	1/4W
R684	1-249-441-11	CARBON	100K	5%	1/4W
R685	1-247-804-11	CARBON	75	5%	1/4W
R725	1-249-430-11	CARBON	12K	5%	1/4W
R726	1-249-412-11	CARBON	390	5%	1/4W
R727	1-249-413-11	CARBON	470	5%	1/4W
R728	1-249-415-11	CARBON	680	5%	1/4W
R729	1-249-416-11	CARBON	820	5%	1/4W
R730	1-249-418-11	CARBON	1.2K	5%	1/4W
R731	1-249-419-11	CARBON	1.5K	5%	1/4W
R732	1-249-421-11	CARBON	2.2K	5%	1/4W
R733	1-249-422-11	CARBON	2.7K	5%	1/4W
R742	1-249-407-11	CARBON	150	5%	1/4W
R743	1-247-807-31	CARBON	100	5%	1/4W
R750	1-249-429-11	CARBON	10K	5%	1/4W
R751	1-249-417-11	CARBON	1K	5%	1/4W
R752	1-249-441-11	CARBON	100K	5%	1/4W
R753	1-249-417-11	CARBON	1K	5%	1/4W
R754	1-249-437-11	CARBON	47K	5%	1/4W
R755	1-249-429-11	CARBON	10K	5%	1/4W
R756	1-247-886-11	CARBON	200K	5%	1/4W
R757	1-247-807-31	CARBON	100	5%	1/4W
R758	1-249-433-11	CARBON	22K	5%	1/4W
R759	1-249-433-11	CARBON	22K	5%	1/4W
R760	1-249-433-11	CARBON	22K	5%	1/4W
R761	1-247-881-00	CARBON	120K	5%	1/4W
R762	1-249-433-11	CARBON	22K	5%	1/4W
R763	1-249-433-11	CARBON	22K	5%	1/4W
R764	1-249-433-11	CARBON	22K	5%	1/4W
R765	1-249-437-11	CARBON	47K	5%	1/4W
R766	1-249-431-11	CARBON	15K	5%	1/4W
R767	1-249-431-11	CARBON	15K	5%	1/4W
R768	1-249-417-11	CARBON	1K	5%	1/4W
R769	1-249-429-11	CARBON	10K	5%	1/4W

< VARIABLE RESISTOR >

RV750	1-225-574-11	RES, VAR, CARBON 50K (MIC LEVEL)
RV751	1-225-574-11	RES, VAR, CARBON 50K (ECHO LEVEL)

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S601	1-473-534-11	ENCODER, ROTARY (I◀◀ ⟷ ▶▶I, DJ MIX (JOG))	
S602	1-473-392-11	ENCODER, ROTARY (VOLUME)	
S604	1-762-875-21	SWITCH, KEYBOARD (FILE SELECT)	
S605	1-762-875-21	SWITCH, KEYBOARD (SURROUND)	
S606	1-762-875-21	SWITCH, KEYBOARD (KARAOKE PON/MPX)	
S607	1-762-875-21	SWITCH, KEYBOARD (■)	
S608	1-762-875-21	SWITCH, KEYBOARD (TIMER SELECT)	
S609	1-762-875-21	SWITCH, KEYBOARD (CLOCK/TIMER SET)	
S610	1-762-875-21	SWITCH, KEYBOARD (DISPLAY/DEMO)	
S614	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)	
S615	1-762-875-21	SWITCH, KEYBOARD (EDIT, DIRECTION)	
S616	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE, DOLBY NR)	
S617	1-762-875-21	SWITCH, KEYBOARD (CD REPEAT)	
S618	1-762-875-21	SWITCH, KEYBOARD (CD LOOP)	
S619	1-762-875-21	SWITCH, KEYBOARD (CD FLASH)	
S620	1-762-875-21	SWITCH, KEYBOARD (NON-STOP)	
S621	1-762-875-21	SWITCH, KEYBOARD (–, ◀◀)	
S622	1-762-875-21	SWITCH, KEYBOARD (ENTER/NEXT)	
S623	1-762-875-21	SWITCH, KEYBOARD (+, ▶▶)	
S624	1-762-875-21	SWITCH, KEYBOARD (DBFB)	
S625	1-762-875-21	SWITCH, KEYBOARD (GROOVE)	
S626	1-762-875-21	SWITCH, KEYBOARD (ACTIVE)	
S627	1-762-875-21	SWITCH, KEYBOARD (SELECT)	
S628	1-762-875-21	SWITCH, KEYBOARD (RETURN)	
S629	1-762-875-21	SWITCH, KEYBOARD (PREV)	
S630	1-762-875-21	SWITCH, KEYBOARD (NEXT)	
S631	1-762-875-21	SWITCH, KEYBOARD (TUNER, BAND)	
S632	1-762-875-21	SWITCH, KEYBOARD (CD, ▶II)	
S633	1-762-875-21	SWITCH, KEYBOARD (TAPE B, ►)	
S634	1-762-875-21	SWITCH, KEYBOARD (TAPE B, ◄)	
S635	1-762-875-21	SWITCH, KEYBOARD (TAPE A, ►)	
S636	1-762-875-21	SWITCH, KEYBOARD (TAPE A, ◄)	
S656	1-762-875-21	SWITCH, KEYBOARD (● REC)	
S657	1-762-875-21	SWITCH, KEYBOARD (II PAUSE)	
S658	1-762-875-21	SWITCH, KEYBOARD (HI-DUB)	
S659	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)	
		< VIBRATOR >	
X601	1-579-952-21	VIBRATOR, CERAMIC (8MHz)	
**********			
*	A-4414-003-A	POWER AMP BOARD, COMPLETE (EXCEPT CH)	
*	A-4414-014-A	POWER AMP BOARD, COMPLETE (CH)	
		**********	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
		< CAPACITOR >	

C801	1-126-963-11	ELECT	4.7uF	20%	50V
C802	1-162-286-31	CERAMIC	220PF	10%	50V
C803	1-162-282-31	CERAMIC	100PF	10%	50V
C804	1-104-664-11	ELECT	47uF	20%	10V
C806	1-126-967-11	ELECT	47uF	20%	50V
C807	1-126-965-11	ELECT	22uF	20%	50V
C809	1-126-965-11	ELECT	22uF	20%	50V

POWER AMP | TRANSFORMER

Ref. No.	Part No.	Description			Remark
C810	1-164-159-11	CERAMIC	0.1uF		50V
C811	1-136-495-11	FILM	0.068uF	5%	50V
C812	1-136-495-11	FILM	0.068uF	5%	50V
C813	1-162-306-11	CERAMIC	0.01uF	20%	16V
C814	1-162-306-11	CERAMIC	0.01uF	20%	16V (CH)
C841	1-136-165-00	FILM	0.1uF	5%	50V
C842	1-126-974-11	ELECT	3300uF	20%	50V
C843	1-126-925-11	ELECT	470uF	20%	10V
C851	1-126-963-11	ELECT	4.7uF	20%	50V
C852	1-162-286-31	CERAMIC	220PF	10%	50V
C853	1-162-282-31	CERAMIC	100PF	10%	50V
C854	1-104-664-11	ELECT	47uF	20%	10V
C856	1-126-967-11	ELECT	47uF	20%	50V
C857	1-126-965-11	ELECT	22uF	20%	50V
C861	1-136-495-11	FILM	0.068uF	5%	50V
C862	1-136-495-11	FILM	0.068uF	5%	50V
C891	1-136-165-00	FILM	0.1uF	5%	50V
C892	1-126-974-11	ELECT	3300uF	20%	50V
		< CONNECTOR >			
CN801	1-778-981-11	CONNECTOR, BOARD TO BOARD 13P			
		< DIODE >			
D800	8-719-510-68	DIODE D5SBA20F01			
D801	8-719-911-19	DIODE 1SS119			
D841	8-719-911-19	DIODE 1SS119			
D842	8-719-911-19	DIODE 1SS119			
D843	8-719-911-19	DIODE 1SS119			
D851	8-719-911-19	DIODE 1SS119			
		< IC >			
IC801	8-749-900-34	IC STK-4182MK2			
		< TRANSISTOR >			
Q801	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q851	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
		< RESISTOR >			
R801	1-249-417-11	CARBON	1K	5%	1/4W
R802	1-249-437-11	CARBON	47K	5%	1/4W
R803	1-249-415-11	CARBON	680	5%	1/4W
R804	1-249-437-11	CARBON	47K	5%	1/4W
R805	1-260-105-11	CARBON	3.3K	5%	1/2W
R806	1-260-105-11	CARBON	3.3K	5%	1/2W
⚠R807	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R808	1-220-755-11	METAL	0.22	10%	2W F
R809	1-260-076-11	CARBON	10	5%	1/2W
R811	1-249-417-11	CARBON	1K	5%	1/4W
R812	1-249-431-11	CARBON	15K	5%	1/4W
R813	1-249-441-11	CARBON	100K	5%	1/4W
R814	1-260-099-11	CARBON	1K	5%	1/2W
R816	1-260-099-11	CARBON	1K	5%	1/2W
⚠R820	1-202-972-61	FUSIBLE	1	5%	1/4W F
R841	1-249-421-11	CARBON	2.2K	5%	1/4W
R842	1-249-425-11	CARBON	4.7K	5%	1/4W
R843	1-247-882-11	CARBON	130K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R844	1-249-417-11	CARBON	1K	5%	1/4W
R851	1-249-417-11	CARBON	1K	5%	1/4W
R852	1-249-437-11	CARBON	47K	5%	1/4W
R853	1-249-415-11	CARBON	680	5%	1/4W
R854	1-249-437-11	CARBON	47K	5%	1/4W
R855	1-260-105-11	CARBON	3.3K	5%	1/2W
R856	1-260-105-11	CARBON	3.3K	5%	1/2W
⚠R857	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R858	1-220-755-11	METAL	0.22	10%	2W F
R859	1-260-076-11	CARBON	10	5%	1/2W
R861	1-249-417-11	CARBON	1K	5%	1/4W
R862	1-249-431-11	CARBON	15K	5%	1/4W
R863	1-249-441-11	CARBON	100K	5%	1/4W
**********					
*	1-670-069-11	TRANSFORMER BOARD			
		**********			
	1-533-217-31	HOLDER, FUSE			
		< CONNECTOR >			
CN11	1-564-523-11	PLUG, CONNECTOR 8P			
* CN12	1-564-518-11	PLUG, CONNECTOR 3P			
CN13	1-564-321-00	PIN, CONNECTOR 2P			
		< FUSE >			
⚠F11	1-532-502-31	FUSE (T1.25A/250V)			
⚠F12	1-532-464-31	FUSE (T2.5AL/250V)			
		< RESISTOR >			
⚠R11	1-219-119-81	FUSIBLE	0.1	5%	1/4W F
⚠R12	1-219-119-81	FUSIBLE	0.1	5%	1/4W F
⚠R13	1-219-119-81	FUSIBLE	0.1	5%	1/4W F
⚠R14	1-219-119-81	FUSIBLE	0.1	5%	1/4W F
		< SWITCH >			
⚠S11	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (EXCEPT TH, CH)			
		< TRANSFOMER >			
⚠T11	1-431-830-11	TRANSFORMER, POWER			
**********					
		MISCELLANEOUS			
		**********			
6	1-769-984-11	WIRE (FLAT TYPE) (13 CORE) (23cm)			
10	1-773-048-11	WIRE (FLAT TYPE) (17 CORE)			
11	1-773-025-11	WIRE (FLAT TYPE) (15 CORE) (33cm)			
106	1-775-212-11	WIRE (FLAT TYPE) (23 CORE)			
108	1-773-008-11	WIRE (FLAT TYPE) (15 CORE) (14cm)			
109	1-233-545-11	ENCAPSULATED COMPONENT (TH)			
109	1-693-381-11	TUNER, FM/AM (CH)			
109	1-693-421-11	TUNER (FM/AM) (EXCEPT TH, CH)			
⚠114	1-575-651-11	CORD, POWER (EA, HK, SP, MY, TW)			
⚠114	1-575-653-11	CORD, POWER (IA, TH)			
⚠114	1-782-464-21	CORD, POWER (CH)			
⚠115	1-569-007-11	ADAPTOR, CONVERSION 2P (IA)			
⚠115	1-569-008-21	ADAPTOR, CONVERSION 2P (EA, SP, MY, TW)			

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
⚠115	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
116	1-751-688-11	WIRE (FLAT TYPE) (13 CORE) (17cm)	
⚠T11	1-431-830-11	TRANSFORMER, POWER	

****

****
HARDWARE LIST
****

#1	7-685-872-09	SCREW +BVTT 3X8 (S)	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#3	7-685-647-01	SCREW +BVTP 3X10 TYPE1 (TH)	
#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S (EXCEPT TH)	
#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#5	7-685-871-01	SCREW +BVTT 3X6 (S)	
#7	7-685-851-04	SCREW +BVTT 2X4 (S)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

9-922-878-11

Sony Corporation
Home A&V Products Company

98G057024-1D
Printed in Singapore © 1998. 7
Published by Quality Assurance Dept.
(Shibaura)